

10/516, 808

**EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	726	(514/252.13,514/255.01,514/255.05,544/358,544/360,544/367,544/372,544/374,544/386).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/14 09:38
L2	102	l1 and piperazinyl and acyl and piperidine	US-PGPUB; USPAT	OR	ON	2007/08/14 09:39
L3	98	l1 and piperazin! and acyl and piperidine	US-PGPUB; USPAT	OR	ON	2007/08/14 09:39
L4	46	l3 and ketone	US-PGPUB; USPAT	OR	ON	2007/08/14 09:40
L5	11	l4 and thiazol	US-PGPUB; USPAT	OR	ON	2007/08/14 09:40

10/516,808

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NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload  
NEWS 7 MAY 21 CA/Caplus enhanced with additional kind codes for German patents  
NEWS 8 MAY 22 CA/Caplus enhanced with IPC reclassification in Japanese patents  
NEWS 9 JUN 27 CA/Caplus enhanced with pre-1967 CAS Registry Numbers  
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NEWS 14 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 15 JUL 02 CHEMCATS accession numbers revised  
NEWS 16 JUL 02 CA/Caplus enhanced with utility model patents from China  
NEWS 17 JUL 16 Caplus enhanced with French and German abstracts  
NEWS 18 JUL 18 CA/Caplus patent coverage enhanced  
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 20 JUL 30 USGENE now available on STN  
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 22 AUG 06 BEILSTEIN updated with new compounds  
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 24 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V6.2, CURRENT MACINTOSH VERSION IS V6.0C(ENG) AND V6.0JC(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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10/513699

Structure attributes must be viewed using STN Express query preparation.

-- s l1 full  
FULL SEARCH INITIATED 09:49:53 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 202 TO ITERATE

100.0% PROCESSED 202 ITERATIONS 15 ANSWERS  
SEARCH TIME: 00.00.01

L2 15 SEA SSS FUL L1

-- file caplus  
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL  
FULL ESTIMATED COST 172.55 172.76

FILE 'CAPLUS' ENTERED AT 09:50:02 ON 14 AUG 2007  
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FILE COVERS 1907 - 14 Aug 2007 VOL 147 ISS 8  
FILE LAST UPDATED: 13 Aug 2007 (20070813/ED)

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-- s l2 full  
L3 1 L2

-- d ibib abs hitstr tot

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:991507 CAPLUS  
DOCUMENT NUMBER: 140:42206  
TITLE: Preparation of piperazinyllacyl piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases  
INVENTOR(S): Bono, Françoise; Bosch, Michael; Dos Santos, Victor; Herbert, Jean Marc; Nisato, Dino; Tonnerre, Bernard; Wagon, Jean  
PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.  
SOURCE: PCT Int. Appl., 56 pp.

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FILE 'HOME' ENTERED AT 09:48:55 ON 14 AUG 2007

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FULL ESTIMATED COST 0.21 0.21

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DICTIONARY FILE UPDATES: 13 AUG 2007 HIGHEST RN 944501-68-2

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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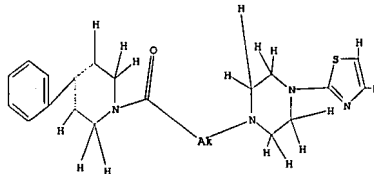
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<http://www.cas.org/support/stngen/atndoc/properties.html>

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L1 STRUCTURE UPLOADED

-- d l1  
L1 HAS NO ANSWERS  
L1 STR



<12/04/2007>

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10/513699

CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104226	A1	20031218	WO 2003-FR1686	20030605
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CO, CI, CM, GA, GN, GQ, GW, ML, MR, NE, NG, TD, TG				
AU 2003255645	A1	20031222	AU 2003-255645	20030605
EP 1513836	A1	20050316	EP 2003-757109	20030605
EP 1513836	B1	20060503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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JP 2005533051	T	20051104	JP 2004-511296	20030605
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AT 336491	T	20060915	AT 2003-757108	20030605
PT 1513836	T	20060929	PT 2003-757109	20030605
ES 2264001	T3	20061216	ES 2003-757109	20030605
ZA 2004009823	A	20060726	ZA 2004-9823	20041203
US 2006167007	A1	20060727	US 2004-516808	20041203
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			WO 2003-FR1686	W 20030605
OTHER SOURCE(S):		MARPAT 140:42206		
GI				

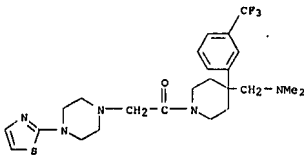
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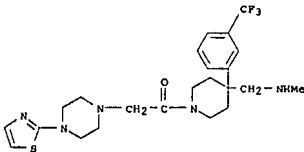


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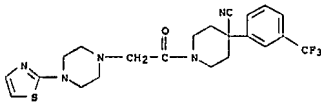
RN 634613-47-1 CAPLUS  
 CN 4-Piperidinemethanamine, N,N-dimethyl-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-48-2 CAPLUS  
 CN 4-Piperidinemethanamine, N-methyl-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT 634613-46-0P, 1-[[2-[[4-(1,3-Thiazol-2-yl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidyl]carbamate 634613-49-3P, tert-Butylmethyl 1-[[2-[[4-(1,3-Thiazol-2-yl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidyl]methylcarbamate  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (Intermediate; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634613-46-0 CAPLUS  
 CN 4-Piperidylmethylcarbamate, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



&lt;12/04/2007&gt;

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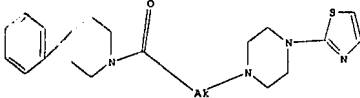
10/513699

L4 STRUCTURE UPLOADED

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L4 HAS NO ANSWERS

L4



Structure attributes must be viewed using STN Express query preparation.

=&gt; s 14 full

FULL SEARCH INITIATED 09:51:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 202 TO ITERATE

100.0% PROCESSED 202 ITERATIONS 15 ANSWERS  
 SEARCH TIME: 00.00.01

L5 15 SEA 888 FUL L4

=&gt; file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE ENTRY SESSION  
 172.10 351.07  
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FILE COVERS 1907 - 14 Aug 2007 VOL 147 ISS 8  
 FILE LAST UPDATED: 13 Aug 2007 (20070813/ED)

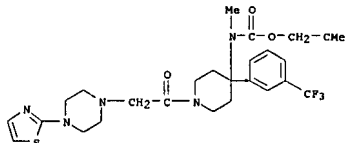
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10/513699

RN 634613-49-3 CAPLUS  
 CN Carbamic acid, methyl 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidyl-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

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SINCE FILE ENTRY SESSION  
 6.21 178.97

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 DICTIONARY FILE UPDATES: 13 AUG 2007 HIGHEST RN 944501-68-2

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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&lt;12/04/2007&gt;

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10/513699

<http://www.cas.org/infopolicy.html>.

=&gt; s 15 full

L6 1 L5

=&gt; d bibab abs hitstr tot

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2003:991507 CAPLUS

DOCUMENT NUMBER: 140:42206

TITLE: Preparation of piperazinylacetyl piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases

INVENTOR(S): Bono, Françoise; Bosch, Michael; Dos Santos, Victor; Herbert, Jean Marc; Nisato, Dino; Tommerre, Bernard; Wagnon, Jean

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.

SOURCE: PCT Int. Appl., 56 pp.

DOCUMENT TYPE: Patent

LANGUAGE: French

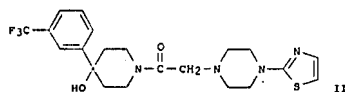
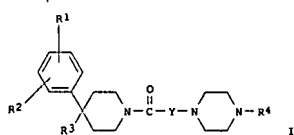
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104226	A1	20031218	WO 2003-FR1686	20030605
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, NG, SN, TD, TO			
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EP 1513836	A1	20050316	EP 2003-757109	20030605
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R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MX, CY, AL, TR, BG, CZ, EE, HU, SK			
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AT 325122	T	20060615	AT 2003-757109	20030605
AT 336491	T	20060915	AT 2003-757109	20030605
PT 1513836	T	20060929	PT 2003-757109	20030605
ES 2264001	T3	20061216	ES 2003-3757109	20030605
ZA 2004009823	A	20060726	ZA 2004-9823	20041203
US 2006167907	A1	20060727	US 2004-816808	20041203
PRIORITY APPL. INFO.:			FR 2002-7001	A 20020607
OTHER SOURCE(S):		MARPAT 140:42206	WO 2003-FR1686	W 20030605
GI				

&lt;12/04/2007&gt;

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**AB** Title compds. I wherein: Y = (CH<sub>2</sub>)<sub>n</sub>, n = 1 or 2; R<sub>1</sub> = halo, CF<sub>3</sub>, alkyl, alkoxy, trifluoromethoxy; R<sub>2</sub> = H, halo; R<sub>3</sub> = H, ORS, CH<sub>3</sub>ORS, MF<sub>2</sub> and derivs., NHCORX and derivs., NHCONH<sub>2</sub> and derivs., CH<sub>2</sub>NR<sub>3</sub>R<sub>8</sub>, CH<sub>2</sub>NHCONH<sub>2</sub> and derivs., alkoxy carbonyl, CONH<sub>2</sub> and derivs., or R<sub>3</sub> forms a double bond between the carbon atom where it is bound to and the neighboring carbon atom of the piperidine cycle; R<sub>4</sub> = 1,3-thiazol-2-yl; R<sub>5</sub> = H, alkyl, alkylcarbonyl; R<sub>6</sub> = alkyl, (CH<sub>2</sub>)<sub>m</sub>NH<sub>2</sub> and derivs., m = 1, 2, or 3; R<sub>7</sub>, R<sub>8</sub> = independently H, alkyl, R<sub>9</sub> = (CH<sub>2</sub>)<sub>q</sub>OH, (CH<sub>2</sub>)<sub>q</sub>OMe, q = 2 or 3; or R<sub>7</sub>RN = ariline, aziridine, azetidine, pyrrolidine, piperidine, morpholine, thiomorpholine, hydantoin, oxazolidinone, imidazole, pyrazole, triazole, tetrahydrofuran, tetrahydropyran, dihydropyran, hexahydroindole, hexahydroindole salts, hydrates and solvates) were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve growth factor) for treating p75NTR related diseases (no data). For example, I (m.p. = 157-158°) was prepared by reacting 2-chloro-1-[4-hydroxy-4-(3-(trifluoromethyl)phenyl)-1-piperidinyl]-1-ethanone (preparation given) and 1-(1,3-thiazol-2-yl)piperazine dihydrochloride (preparation given) in the presence of KI/K<sub>2</sub>CO<sub>3</sub>/MeCN. I inhibited the binding of 125I NGF to p75NTR receptor in the range of 10<sup>-11</sup> to 10<sup>-6</sup> M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF via growing cells expressing preferentially p75NTR, with IC<sub>50</sub>'s in the range of 10<sup>-11</sup> M to 10<sup>-6</sup> M at the cellular level.

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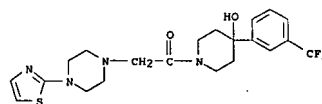
IT  634613-42-6P. 1-[4-(Hydroxy-4-(3-(trifluoromethyl)phenyl)-1-
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634613-43-7P 634613-45-9P. 1-[4-(Aminomethyl)-4-(3-(trifluoromethyl)phenyl)-1-piperidinyl)-2-(4-(1,3-thiazol-2-yl)-1-piperazinyl)-1-ethanone Trihydrochloride
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RAC (Reaction or reagent); USE (Uses)
MOP binding inhibitor; preparation of piperazinylcycloperidines as MOP binding inhibitors to p75NTR receptor and of the apoptosis induced by NOP)
CN  634613-42-6 CAPLUS
RN  4-Piperidinol, 1-[4-(2-thiazolyl)-1-piperazinyl]-4-(3-

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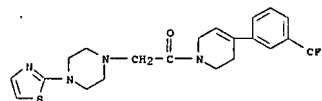
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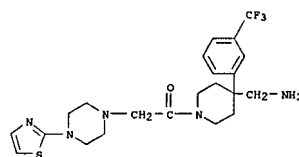
(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



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RN 634613-45-9 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



●<sub>3</sub> HCl

IT	634613-37-9P	634613-38-0P	634613-39-1P
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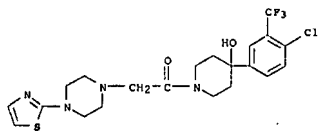
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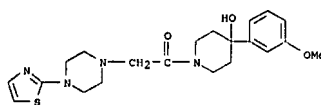
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(NGF binding inhibitor; preparation of piperazinyacylpiperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

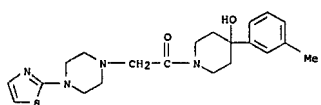
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RN 634613-38-0 CAPLUS  
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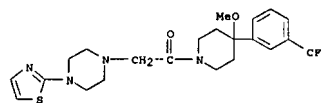
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CN 4-piperidinol, 4-(3-methylphenyl)-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634613-40-4 CAPLUS  
CN Piperidine, 4-methoxy-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-(3-(trifluoromethyl)phenyl)-, monohydrochloride (9CI) (CA INDEX NAME)

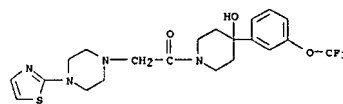
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● HCl

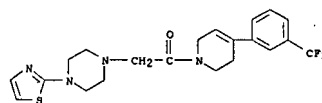
RN 634613-41-5 CAPLUS  
CN 4-Piperidinol, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-44-8 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

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CRN 634613-43-7  
CMP C21 H23 P3 N4 O S



CM 2

CRN 144-62-7  
CMF C2 H2 O4

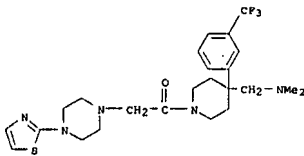


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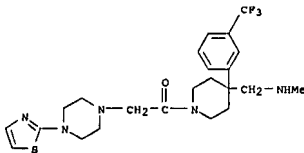
**Ralph Lingo**

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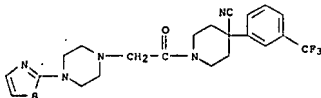
RN 634613-47-1 CAPLUS  
 CN 4-Piperidinemethanamine, N,N-dimethyl-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-48-2 CAPLUS  
 CN 4-Piperidinemethanamine, N-methyl-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT<sup>1</sup> 634613-46-0P, 1-[2-[4-(1,3-Thiazol-2-yl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarbonitrile 634613-49-3P, tert-Butylmethyl 1-[2-[4-(1,3-thiazol-2-yl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinylmethylcarbamate  
 RL: RCT (Reactant); SPW (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634613-46-0 CAPLUS  
 CN 4-Piperidinecarbonitrile, 1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



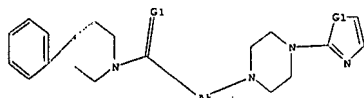
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L7 STRUCTURE UPLOADED

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Q1 0.8

Structure attributes must be viewed using STN Express query preparation.

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 CA SUBSCRIBER PRICE 0.00 -1.56

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FILE COVERS 1907 - 14 Aug 2007 VOL 147 ISS 8  
 FILE LAST UPDATED: 13 Aug 2007 (20070813/BD)

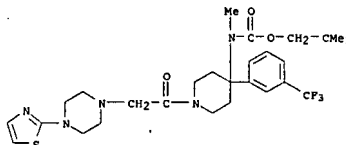
Effective October 17, 2005, revised CAS Information Use Policies apply.

&lt;12/04/2007&gt;

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RN 634613-49-3 CAPLUS  
 CN Carbanic acid, methyl 1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg  
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They are available for your review at:

<http://www.cas.org/infopolicy.html>

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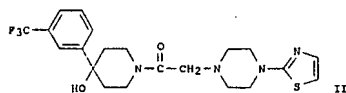
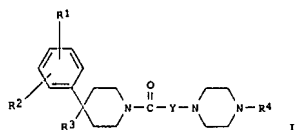
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L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2003:991507 CAPLUS  
 DOCUMENT NUMBER: 140:42206  
 TITLE: Preparation of piperazinylacetyl piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases  
 INVENTOR(S): Bono, Francoise; Bosch, Michael; Dos Santos, Victor; Herbert, Jean Marc; Nisato, Dino; Tonnerre, Bernard; Wagnon, Jean  
 PATENT ASSIGNEE(S): Sanofi-Synthelabo, Pr.  
 SOURCE: PCT Int. Appl., 56 pp.  
 CODEN: PIXX2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104226	A1	20031218	WO 2003-FR1686	20030605
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JP 200533051	T	20051104	JP 2004-511296	20030605
AT 325122	T	20060615	AT 2003-757109	20030605
AT 316491	T	20060915	AT 2003-757108	20030605
PT 1513836	T	20060929	PT 2003-757109	20030605
ES 2264001	T3	20061216	ES 2003-3757109	20030605
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US 2006167907	A1	20060727	US 2004-516808	20041203
PRIORITY APPLN. INFO.:			FR 2002-7001	A 20020607
OTHER SOURCE(S):		MARPAT 140:42206	WO 2003-FR1686	W 20030605
GI				

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AB Title compds. I [wherein: Y = (CH<sub>2</sub>)<sub>n</sub>; n = 1 or 2; R<sub>1</sub> = halo, CF<sub>3</sub>, alkyl, alkoxy, trifluoromethoxy; R<sub>2</sub> = H, halo; R<sub>3</sub> = H, OR<sub>5</sub>, CH<sub>2</sub>OR<sub>5</sub>, NH<sub>2</sub> and derivs., NHCO<sub>2</sub>R<sub>6</sub> and derivs., NHCONH<sub>2</sub> and derivs., CH<sub>2</sub>NH<sub>2</sub>R<sub>7</sub>, CH<sub>2</sub>NHCONH<sub>2</sub> and derivs., alkoxycarbonyl, CONH<sub>2</sub> and derivs., or R<sub>3</sub> forms a double bond between the carbon atom where it is bound to and the neighboring carbon atom of the piperidine cycle; R<sub>4</sub> = 1,3-thiazol-2-yl; R<sub>5</sub> = H, alkyl, alkylcarbonyl; R<sub>6</sub> = alkyl, (CH<sub>2</sub>)<sub>m</sub>NH<sub>2</sub> and derivs., m = 1, 2, or 3; R<sub>7</sub>, R<sub>8</sub> = independently H, alkyl; R<sub>8</sub> = (CH<sub>2</sub>)<sub>q</sub>OH, (CH<sub>2</sub>)<sub>q</sub>OMe, q = 2 or 3; or R<sub>7</sub>R<sub>8</sub>N = aziridine, azetidine, pyrrolidine, piperidine, morpholine, and their salts, hydrates and solvates) were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve growth factor) for treating p75NTR related diseases (no data). For example, I (m.p. = 157-158°) was prepared by reacting 2-chloro-1-[4-hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone (preparation given) and 1-[(1,3-thiazol-2-yl)piperazine dihydrochloride (preparation given)] in the presence of K<sub>2</sub>CO<sub>3</sub>/MeCN. I inhibited the binding of 125I NGF to p75NTR receptor with IC<sub>50</sub> in the range of 10-11 M to 10-6 M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC<sub>50</sub> in the range of 10-11 M to 10-6 M at the cellular level.

IT 634613-42-6P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone 634613-43-7P 634613-45-9P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone Trihydrochloride

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(NGF binding inhibitor; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

RN 634613-42-6 CAPLUS

&lt;12/04/2007&gt;

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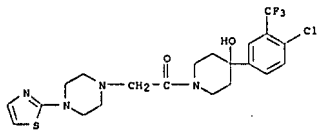
[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(NGF binding inhibitor; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

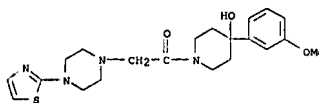
RN 634613-37-9 CAPLUS

CN 4-Piperidinol, 4-[4-chloro-3-(trifluoromethyl)phenyl]-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



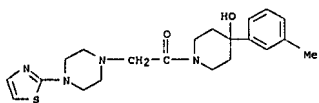
RN 634613-38-0 CAPLUS

CN 4-Piperidinol, 4-[3-methoxyphenyl]-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634613-39-1 CAPLUS

CN 4-Piperidinol, 4-[3-methylphenyl]-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



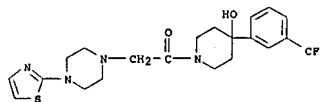
RN 634613-40-4 CAPLUS

CN Piperidine, 4-methoxy-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

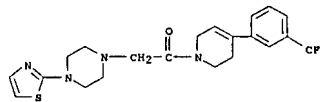
Erich Leese

CN 4-Piperidinol, 1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



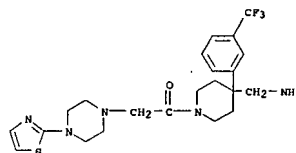
RN 634613-43-7 CAPLUS

CN Pyridine, 1,2,3,6-tetrahydro-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-45-9 CAPLUS

CN 4-Piperidinemethanamine, 1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



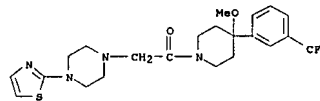
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IT 634613-37-9P 634613-38-0P 634613-39-1P

634613-40-4P 634613-41-5P 634613-44-8P, 2-[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-3,6-dihydro-1-(2H)-pyridinyl]-1-ethanone dioxalate 634613-47-1P, 1-[4-[(Dimethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone 634613-48-2P, 1-[4-[(Methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-

&lt;12/04/2007&gt;

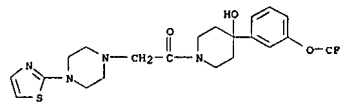
Erich Leese



● HCl

RN 634613-41-5 CAPLUS

CN 4-Piperidinol, 1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



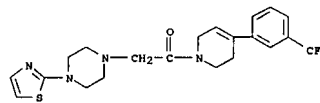
RN 634613-44-8 CAPLUS

CN Pyridine, 1,2,3,6-tetrahydro-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 634613-43-7

CMF C21 H23 F3 N4 O S.



CM 2

CRN 144-62-7

CMF C2 H2 O4

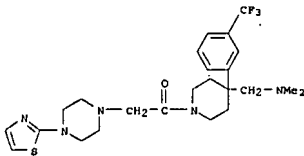


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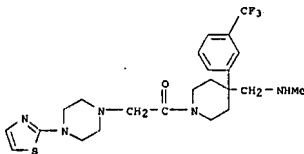
Erich Leese

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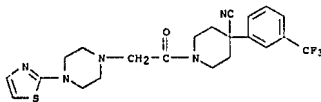
RN 634613-47-1 CAPLUS  
 CN 4-Piperidineethanamine, N,N-dimethyl-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-48-2 CAPLUS  
 CN 4-Piperidineethanamine, N-methyl-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT 634613-46-0P, 1-[2-[4-(1,3-Thiazol-2-yl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarbonitrile 634613-49-3P, tert-Butylmethyl 1-[2-[4-(1,3-thiazol-2-yl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinylmethylcarbamate  
 RL; RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of piperazinylacetyl piperidines as NOF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)  
 RN 634613-46-0 CAPLUS  
 CN 4-Piperidinecarbonitrile, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



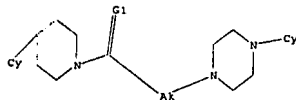
&lt;12/04/2007&gt;

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L10 STRUCTURE UPLOADED

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 L10 HAS NO ANSWERS  
 L10 STR



G1 0.8

Structure attributes must be viewed using STN Express query preparation.

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 FULL SCREEN SEARCH COMPLETED - 225112 TO ITERATE

100.0% PROCESSED 225112 ITERATIONS 378 ANSWERS  
 SEARCH TIME: 00.00.02

L11 378 SEA 855 FUL L10

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 FULL ESTIMATED COST  
 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
 CA SUBSCRIBER PRICE

	SINCE FILE ENTRY	TOTAL SESSION
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	0.00	-2.34

FILE 'CAPLUS' ENTERED AT 09:57:04 ON 14 AUG 2007  
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FILE COVERS 1907 - 14 Aug 2007 VOL 147 ISS 8  
 FILE LAST UPDATED: 13 Aug 2007 (20070813/ED)

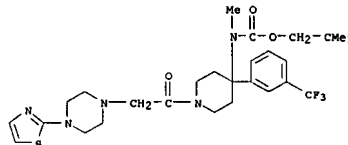
Effective October 17, 2005, revised CAS Information Use Policies apply.

&lt;12/04/2007&gt;

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10/513699

RN 634613-49-3 CAPLUS  
 CN Carbamic acid, methyl 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RR FORMAT

=> file reg  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST  
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STRUCTURE FILE UPDATES: 13 AUG 2007 HIGHEST RN 944501-68-2  
 DICTIONARY FILE UPDATES: 13 AUG 2007 HIGHEST RN 944501-68-2

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&lt;12/04/2007&gt;

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10/513699

They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l11 full  
 L12 22 L11  
 => d ibib abs hitstr tot

L12 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2007:705719 CAPLUS  
 DOCUMENT NUMBER: 147:118256  
 TITLE: Preparation of piperidine-1-carboxamide derivatives and spirocycles thereof as antagonists of calcitonin gene-related peptide receptors  
 INVENTOR(S): Chaturvedula, Prasad V.; Chen, Ling; Civiello, Rita; Degnan, Andrew P.; Dubowchik, Gene M.; Han, Xiaojun; Jiang, Xiang Jun J.; Macor, John E.; Poindexter, Graham S.; Tora, George O.; Luo, Guanglin  
 PATENT ASSIGNER(S): Bristol-Myers Squibb Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 198pp., Cont.-in-part of U.S. Ser. No. 729,155.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

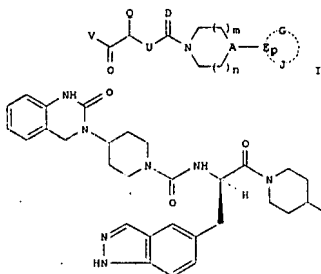
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007149503	A1	20070628	US 2007-620308	20070105
US 2004204397	A1	20041014	US 2003-729155	20031205
US 7220862	B2	20070522		
PRIORITY APPLN. INFO.:				
			US 2003-729155	A2 20031205
			US 2002-386138P	P 20020605
			US 2002-38617P	P 20020613
			US 2002-389870P	P 20020619
			US 2002-393200P	P 20020701
			US 2002-413534P	P 20020925
			US 2003-445523	A2 20030527

G1

&lt;12/04/2007&gt;

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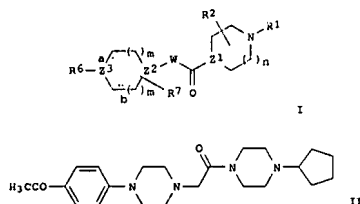
II

AB The title compds. I; V = N(R1)(R2) or OR4; R4 = H, C1-6 alkyl, C1-4 haloalkyl, etc.; R1, R2 = independently H, each (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, -C1-6alkyleneamino(C1-3alkyl)2, C3-7 cycloalkyl, Ph, azetidyl, adamantyl, tetrahydrofuranyl, furanyl, dioxolanyl, thienyl, tetrahydrothienyl, pyrrolyl, pyrrolidinyl, pyrrolidinyl, imidazolyl, imidazolidinyl, etc.; R1 and R2 optionally and independently contain 1 or 2 carbonyls or optionally and independently interrupted from the nitrogen to which C1-3 alkylene or C1-3 alkylidene; or NR1R2 together form each (un)substituted azetidyl, pyrrolyl, pyrrolidinyl, imidazolyl, imidazolidinyl, pyrazolyl, pyrazolidinyl, azepinyl, or diazepinyl, or spirocyclic ring, etc.; O = (Sy)R3, NH(Sy)R3, NHC(O)(Sy)R3, NHC(O)O(Sy)R3, NHC(O)NH(Sy)R3, O(Sy)R3, (Sy)NH(R3), etc.; wherein Sy = C1-3 alkylene or C1-3 alkylidene; a = 0 or 1; U = CH2, NH; R3 = (i) heterocycle having two 5 to 7 membered fused rings, (ii) 4 to 6 membered heterocycle containing 1-3 heteroatoms selected from O, N and S optionally containing 1 to 2 carbonyls, (iii) C3-7 cycloalkyl, etc.; D = O, N(CN) or N(SO2-C1-3 alkyl); A = C, m, n = 1; E = N, CH, C; p = 0; G, J and E together form a fused heterocycle having two 5- to 7-membered fused rings optionally containing 1 or 2 carbonyls or pharmaceutically acceptable salts thereof are prepared. These compds. are antagonists of calcitonin gene-related peptide receptors (CGRP receptor) and are useful in therapy for treatment of neurogenic vasodilation, neurogenic inflammation, migraine and other headaches, thermal injury, circulatory shock, flushing associated with menopause, airway inflammatory diseases, such as asthma and chronic obstructive pulmonary disease (COPD), and other conditions the treatment of which can be effected by the antagonism of CGRP-receptors. Thus, (R)-2-[(4-(2-oxo-1,4-dihydro-2H-quinazolin-3-yl)piperidin-1-yl)carbonyl]amino-3-[1-[(2-(trimethylsilyl)ethyl)sulfonyl]-1H-indazol-5-yl]propionic acid was condensed with 4-piperidinopiperidine using PyBOP in CH2Cl2 at room temperature for 16 h followed by treatment with CsF at 80° in MeCN to give (R)-4-(2-oxo-1,4-dihydro-2H-quinazolin-3-yl)piperidine-1-carboxylic acid [2-[(1,4'-bipiperidinyl-1'-yl-1-(1H-indazol-5-ylmethyl)-2-oxoethyl]amide (II). II showed IC50 of ≤10 nM for inhibiting the binding of [125I]CGRP to homogenate of SK-NMC cells.

&lt;12/04/2007&gt;

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MM, MX, MZ, NA, NG, NI, NO, NZ, OM, PO, PH, PL, PT, RO, RS, RU, SC, SD, SE, SO, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZN  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CO, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TO, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 US 2007049571 A1 20070301 US 2006-495986 20060728  
 PRIORITY APPL. INFO.: MARPAT 146:229382 US 2005-704722P P 20050802  
 OTHER SOURCE(S):  
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II

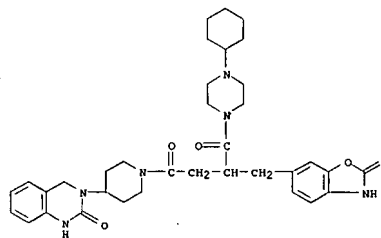
AB Title compds. I [Z1 and Z2 independently = N or CRa wherein Ra = H, OH, halo, alkyl, etc.; Z3 = N or CRb wherein Rb = absent, H, OH, alkyl, etc.; bonds a and b independently represent single or double bond such that if Z3 = N, then bond a is single bond and at least on one bond a or bond b = single bond; W = CR3R4, NR5, COCR3R4, COCR3R4; R3 and R4 independently = H, alkyl, haloalkyl, etc.; R5 = H, alkyl, haloalkyl, etc.; each m independently = 0-2, such that neither m = 0 if both Z2 and Z3 = N; n = 0-2; R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = 0-4 substituents chosen from alkyl and groups that are taken together to form alkylene bridge; R6 = (un)substituted alkanoyl, alkoxycarbonyl, alkenyl, etc.; R7 = 0-4 substituents chosen from alkyl and groups that are taken together to form alkylene bridge], and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of histamine H3 receptor binding. Thus, e.g., II was prepared by acetylation of 1-cyclopentylpiperazine with bromoacetyl bromide followed by N-alkylation of 1-(4-piperazin-1-ylphenyl)ethanone. Details for bioassays are described (no data). I may generally be used to modulate ligand binding to histamine H3 receptors in vivo or in vitro, and are particularly useful in the treatment of a variety of disorders in humans, domesticated companion animals and livestock animals. Pharmaceutical compns. and therapeutic methods are provided, as are methods for using such ligands for detecting histamine H3 receptors (e.g., receptor localization studies).

IT 923932-69-AP  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

&lt;12/04/2007&gt;

Erich Leese

IT 773886-69-4P, 1-(4-Cyclohexylpiperazin-1-yl)-2-[(2-oxo-2,3-dihydrobenzoxazol-6-yl)methyl]-4-[(4-(2-oxo-1,4-dihydro-2H-quinazolin-3-yl)piperidin-1-yl)butane-1,4-dione  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of piperidine-1-carboxamide deriva. and spirocyclic compds. thereof as antagonists of calcitonin gene-related peptide receptors)  
 RN 773886-69-4 CAPLUS  
 CN Piperazine, 1-cyclohexyl-4-[(2,3-dihydro-2-oxo-6-benzoxazolyl)methyl]-4-[(4-(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl)-1,4-dioxobutyl]- (SCI) (CA INDEX NAME)



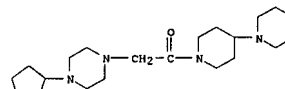
L12 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007:143519 CAPLUS  
 DOCUMENT NUMBER: 146:229382  
 TITLE: Preparation of dipiperazinyl ketones and related analogues as modulators of histamine H3 receptor binding  
 INVENTOR(S): Xia, Linghong; Ochterski, Joseph W.; Gao, Yang; Han, Bingsong; Caldwell, Timothy M.; Xu, Yuelian; Peterson, John M.; Ge, Ping; Ohliger, Robert  
 PATENT ASSIGNEE(S): Neurogen Corporation, USA  
 SOURCE: PCT Int. Appl., 279pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007016496	A2	20070208	WO 2006-US29761	20060728
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&lt;12/04/2007&gt;

Erich Leese

(Uses)  
 (preparation of dipiperazinyl ketones and related analogs as histamine H3 receptor modulators)  
 RN 923932-69-8 CAPLUS  
 CN Ethanone, 1-[1,4'-bipiperidinyl-1'-yl-2-(4-cyclopentyl-1-piperazinyl)]- (CA INDEX NAME)



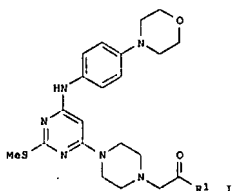
L12 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:1354308 CAPLUS  
 DOCUMENT NUMBER: 146:100725  
 TITLE: Preparation of anilino pyrimidine derivatives for treatment of Hepatitis C virus  
 INVENTOR(S): Kim, Jong Woo; Lee, Sang Wook; Lee, Geun Hyung; Han, Jae Jin; Park, Sang Jin; Park, Eul Yong; Shin, Joong Chul  
 PATENT ASSIGNEE(S): B & C Biopharm. Co., Ltd., S. Korea  
 SOURCE: PCT Int. Appl., 49pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006137706	A1	20061228	WO 2006-KR2416	20060622
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GN, GR, GU, HU, ID, IL, IN, JP, KE, KG, KM, KN, KP, KR, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SO, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZN			
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PRIORITY APPL. INFO.: KR 2005-54885 A 20050624  
 OTHER SOURCE(S): MARPAT 146:100725  
 G1

&lt;12/04/2007&gt;

Erich Leese



AB Title compds. represented by the formula I [wherein R1 = -N(R2)-(CH2)n-R3, 4-R4-(Het)-1-yl or (un)substituted heteroaryl; R2 = H, benzyl or alkyl; R3 = H, halo, OH, etc.; R4 = H, carbamoyl, alkyl, etc.; n = 0-4; Het = piperazine or piperidine; and pharmaceutically acceptable salts thereof] were prepared. For example, I (R1 = MeNH) was provided in a multi-step synthesis starting from the reaction of 4,6-dichloro-2-(methylthio)pyrimidine with 4-(morpholino)aniline. The prepared title compds. showed inhibitory effect on activity of HCV RNA polymerase in vitro and low toxicity, thus can be advantageously used as a therapeutic or prophylactic agent of hepatitis C.

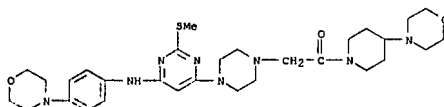
IT 917594-61-7P. 2-Methylthio-6-[4-(morpholino)anilino]-4-[[4-(1-pyrrolidinyl)piperidinyl]carbonylmethyl]piperazin-1-ylpyrimidine  
917594-62-8P. 2-Methylthio-6-[4-(morpholino)anilino]-4-[[4-(1-piperidinyl)piperidinyl]carbonylmethyl]piperazin-1-ylpyrimidine  
917594-63-9P. 2-Methylthio-6-[4-(morpholino)anilino]-4-[[4-(1-morpholinyl)piperidinyl]carbonylmethyl]piperazin-1-ylpyrimidine  
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);  
[preparation of anilino pyrimidine derivs. for treatment of Hepatitis C virus]

RN 917594-61-7 CAPLUS

CN Ethanone, 2-[4-[2-(methylthio)-6-[[4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]-1-piperazinyl]-1-[4-(1-pyrrolidinyl)-1-piperidinyl]- (CA INDEX NAME)

&lt;12/04/2007&gt;

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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2006:1173484 CAPLUS

DOCUMENT NUMBER: 145:489283

TITLE: N-Acylpiperidines and related compounds as CORP-antagonists, methods for preparing them, pharmaceutical compositions and their use as pharmaceutical compositions

INVENTOR(S): Mueller, Stephan Georg; Rudolf, Klaus; Lustenberger, Philipp; Stenamp, Dirk; Santagostino, Marco; Paleari, Fabio; Schaenzle, Gerhard; Arndt, Kirsten; Doods, Henri

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany

SOURCE: U.S. Pat. Appl. Publ., 156pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

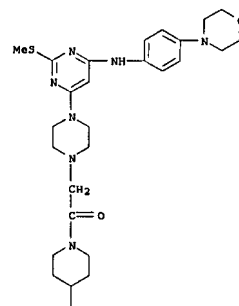
FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006252931	A1	20061109	US 2006-277177	20060322
WO 2005092880	A1	20051006	WO 2005-EP3094	20050323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BM, BH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2005103037	A2	20051103	WO 2005-EP4104	20050418
WO 2005103037	A3	20060112		
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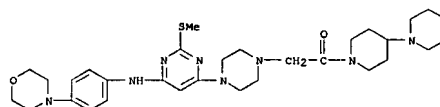
&lt;12/04/2007&gt;

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RN 917594-62-8 CAPLUS

CN Ethanone, 1-[1,4'-bipiperidin]-1'-yl-2-[4-[2-(methylthio)-6-[[4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]-1-piperazinyl]- (CA INDEX NAME)



RN 917594-63-9 CAPLUS

CN Ethanone, 2-[4-[2-(methylthio)-6-[[4-(4-morpholinyl)phenyl]amino]-4-pyrimidinyl]-1-piperazinyl]-1-[4-(4-morpholinyl)-1-piperidinyl]- (CA INDEX NAME)

&lt;12/04/2007&gt;

Erich Leese

RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, TG  
EP 1770091 A1 20070404 EP 2005-21283 20050929  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU

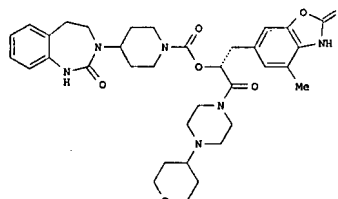
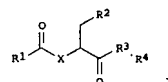
PRIORITY APPLN. INFO.:

AR 2005-101139 A 20050323  
WO 2005-EP3094 A 20050323  
WO 2005-EP4104 A 20050418  
EP 2005-21283 A 20050929  
DE 2004-102004015723A 20040329  
DE 2004-102004019492A 20040422

OTHER SOURCE(S):

MARPAT 145:489283

GI



AB The invention relates to the CORP-antagonists of general formula I, the tautomers, the isomers, the diastereomers, the enantiomers, the hydrates, mixts. and salts thereof and the hydrates of the salts, particularly the physiol. acceptable salts thereof with inorg. or organic acids or bases, as well as those compds. of general formula I in which one or more hydrogen atoms are replaced by deuterium, pharmaceutical compns. containing these compds., the use thereof and processes for the preparation thereof. Compds. of formula I wherein X is CH2, NH, C1-3 alkyl-N, O and S; R1 is (spiro)substituted piperidine and oxodihydrothienopyrimidinyl; R2 is (un)substituted (un)fused aryl, and (un)substituted (un)fused pyridine; R3 is (un)substituted piperidine, (un)substituted piperazine, and (un)substituted diazepine; R4 is (un)substituted 4- to 7-membered oxycycloalkyl; and their tautomers and pharmaceutically acceptable salts thereof, are claimed. Example compound II was prepared by cyclization of

&lt;12/04/2007&gt;

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2-amino-3-methylphenol with CDI; the resulting 4-methyl-3H-benzoxazole-2-one underwent bromination to give 6-bromo-4-methyl-3H-benzoxazole-2-one, which underwent coupling with Me 2-acetylaminocrylate to give Me 2-acetylamin-3-(4-methyl-2-oxo-2,3-dihydrobenzoxazol-6-yl)acrylate, which underwent hydrolysis to give 3-(4-methyl-2-oxo-2,3-dihydrobenzoxazol-6-yl)-2-oxopropionic acid, which underwent asym. reduction to give (R)-2-hydroxy-3-(4-methyl-2-oxo-2,3-dihydrobenzoxazol-6-yl)propionic acid, which underwent esterification to give the corresponding Me ester, which reacted with 4-nitrophenyl chloroformate and 3-(piperidin-4-yl)-1,3,4,5-tetrahydro-1,3-benzodiazepin-2-one followed by hydrolysis to give (R)-1-carboxy-2-(4-methyl-2-oxo-2,3-dihydrobenzoxazol-6-yl)ethyl 4-(2-oxo-1,3,4,5-tetrahydro-1,3-benzodiazepin-3-yl)piperidine-1-carboxylate, which underwent amidation with 1-(tetrahydropyran-4-yl)piperazine to give compound II. All the invention compds. were evaluated for their CORP binding affinity. The tested compds. exhibited IC50 values  $\geq 10\ 000\ \text{nM}$ .

IT 910573-18-1P 910573-24-9P 910573-27-2P  
910573-30-7P 910573-33-0P 910573-39-6P  
910573-45-4P 910573-47-6P 910573-50-1P  
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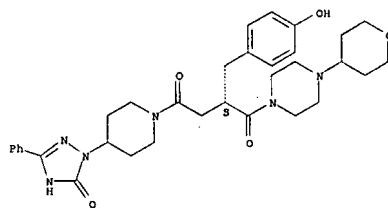
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-acylpiperidines and related compds. as CORP-antagonists useful as therapeutic agents)

RN 910573-18-1 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxyphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

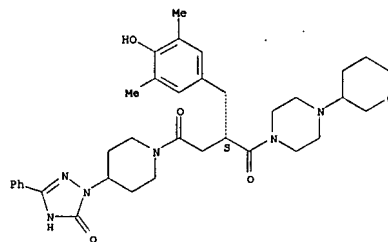
Absolute stereochemistry.



RN 910573-24-9 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-3-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



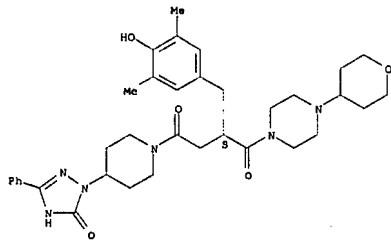
RN 910573-27-2 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

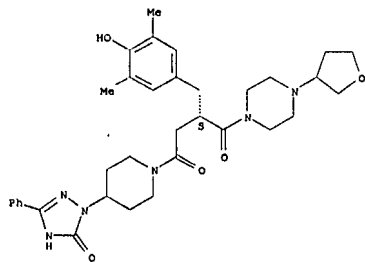
Erich Leese



RN 910573-30-7 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-3-furanyl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



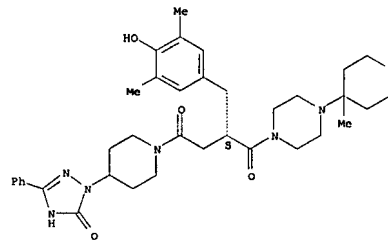
RN 910573-33-0 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-4-methyl-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

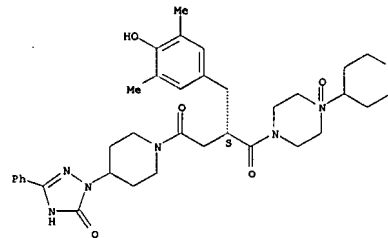
Erich Leese



RN 910573-39-6 CAPLUS

CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)]- 4-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910573-45-4 CAPLUS

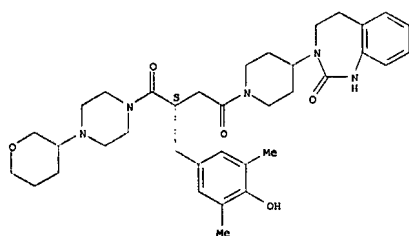
CN Piperazine, 1-[(2S)-4-[(4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-3-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

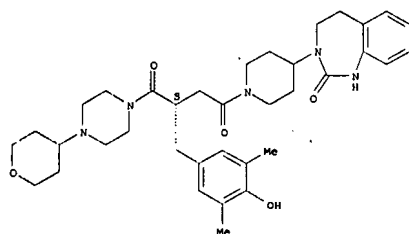
Erich Leese

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RN 910573-47-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-  
 [4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-  
 piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



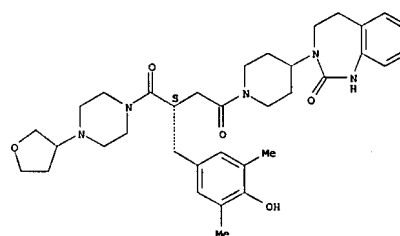
RN 910573-50-1 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-  
 [4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-  
 piperidinyl]butyl]-4-(tetrahydro-3-furanyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

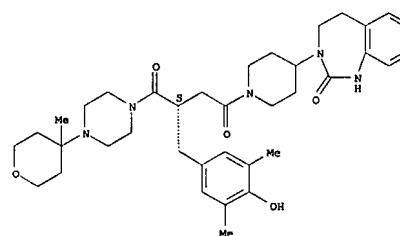
Erich Leese

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RN 910573-53-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-  
 [4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-  
 piperidinyl]butyl]-4-(tetrahydro-4-methyl-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



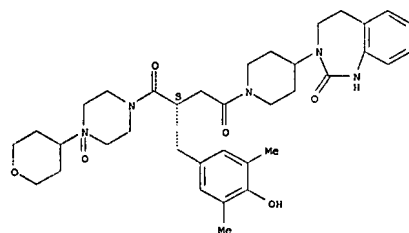
RN 910573-59-0 CAPLUS  
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 piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)-, 4-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

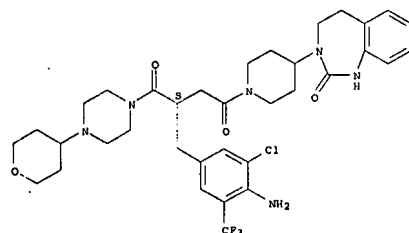
Erich Leese

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RN 910573-68-1 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-  
 1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-  
 piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



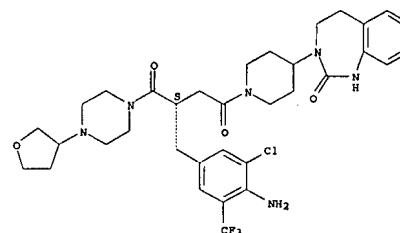
RN 910573-71-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-  
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 piperidinyl]butyl]-4-(tetrahydro-3-furanyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

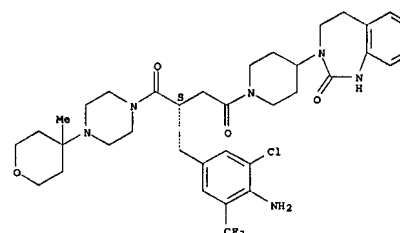
Erich Leese

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RN 910573-74-9 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-  
 1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-  
 piperidinyl]butyl]-4-(tetrahydro-4-methyl-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



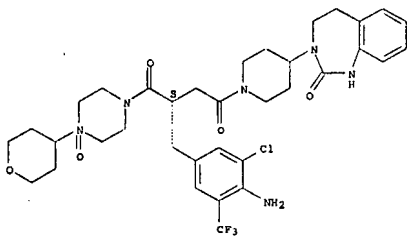
RN 910573-80-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-  
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Absolute stereochemistry.

&lt;12/04/2007&gt;

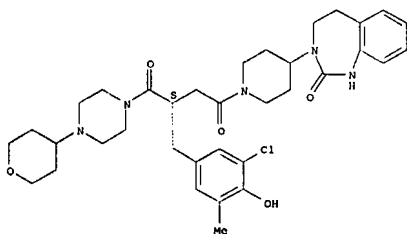
Erich Leese

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RN 910573-86-3 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[[3-chloro-4-hydroxy-5-methylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



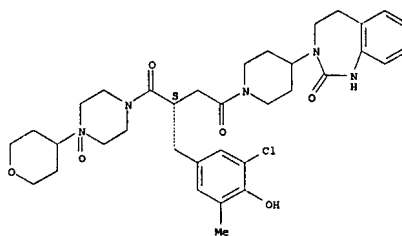
RN 910573-88-6 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[[3-chloro-4-hydroxy-5-methylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

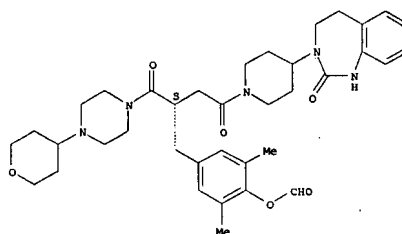
Erich Leese

10/513699



RN 910573-93-2 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[[4-(formyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



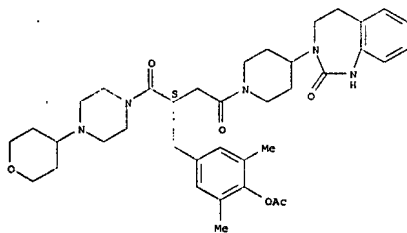
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CN Piperazine, 1-[(2S)-2-[[[4-(acetyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

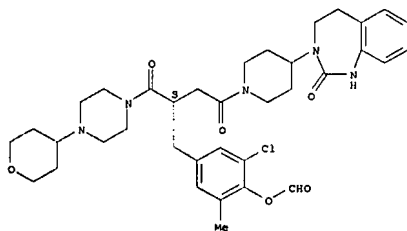
Erich Leese

10/513699



RN 910573-97-6 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[[3-chloro-4-(formyloxy)-5-methylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



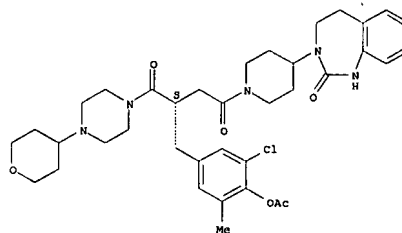
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Absolute stereochemistry.

&lt;12/04/2007&gt;

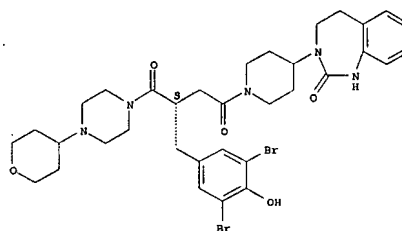
Erich Leese

10/513699



RN 910574-02-6 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[[3,5-dibromo-4-hydroxyphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



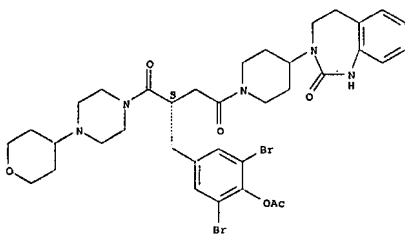
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Absolute stereochemistry.

&lt;12/04/2007&gt;

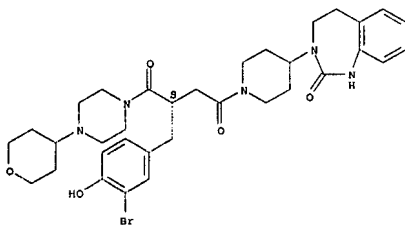
Erich Leese

10/513699



RN 910574-11-7 CAPLUS  
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Absolute stereochemistry.



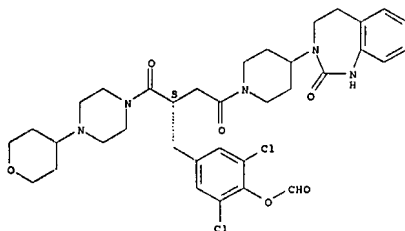
RN 910574-14-0 CAPLUS  
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Absolute stereochemistry.

&lt;12/04/2007&gt;

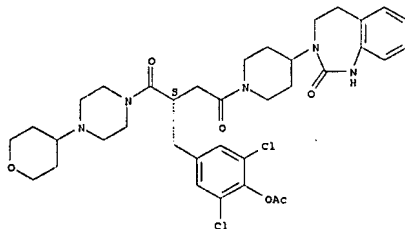
Erich Leese

10/513699



RN 910574-23-1 CAPLUS  
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Absolute stereochemistry.



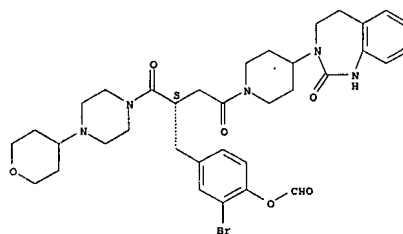
RN 910574-26-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3-chloro-4-hydroxyphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

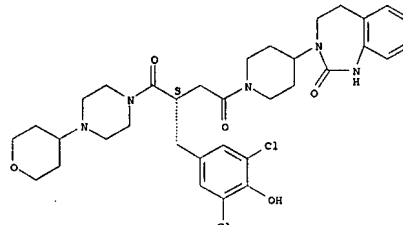
Erich Leese

10/513699



RN 910574-17-3 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3,5-dichloro-4-hydroxyphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



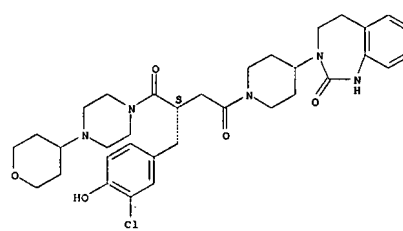
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 CN Piperazine, 1-[(2S)-2-[(3,5-dichloro-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

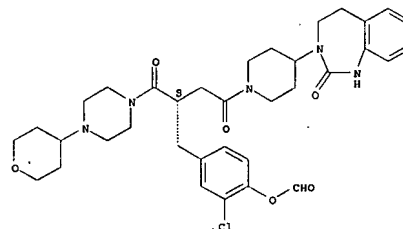
Erich Leese

10/513699



RN 910574-29-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3-chloro-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

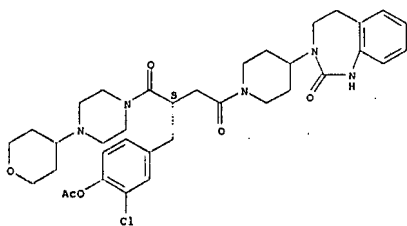


RN 910574-32-2 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-(acetyloxy)-3-chlorophenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

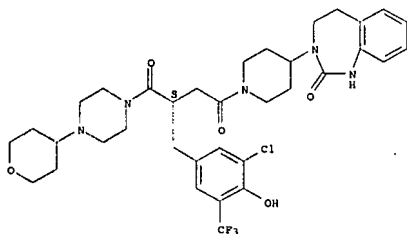
&lt;12/04/2007&gt;

Erich Leese



RN 910574-34-4 CAPLUS  
CN Piperazine, 1-((2S)-2-([3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl)-1,4-dioxo-4-([4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

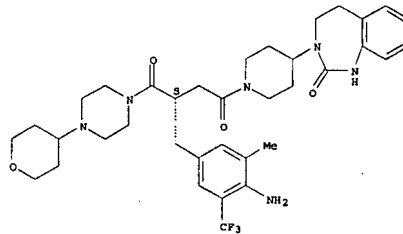


RN 910574-48-0 CAPLUS  
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Absolute stereochemistry.

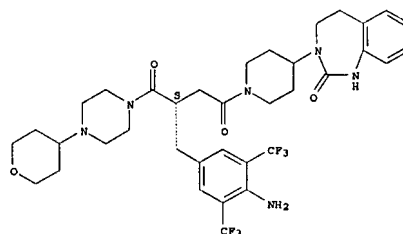
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Erich Leese



RN 910574-54-8 CAPLUS  
CN Piperazine, 1-((2S)-2-([4-amino-3,5-bis(trifluoromethyl)phenyl]methyl)-1,4-dioxo-4-([4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

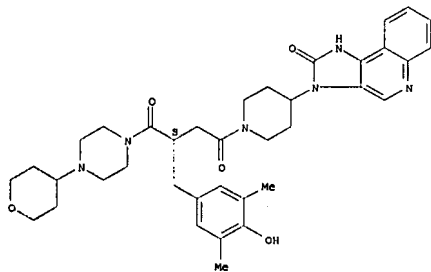


RN 910574-65-1 CAPLUS  
CN Piperazine, 1-((2S)-2-([4-amino-3-methyl-5-(trifluoromethyl)phenyl]methyl)-1,4-dioxo-4-([4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

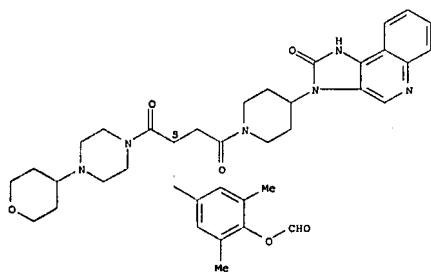
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Erich Leese



RN 910574-69-5 CAPLUS  
CN Piperazine, 1-((2S)-2-([4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-([4-(formyloxy)-3,5-dimethylphenyl]methyl)-1,4-dioxobutyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

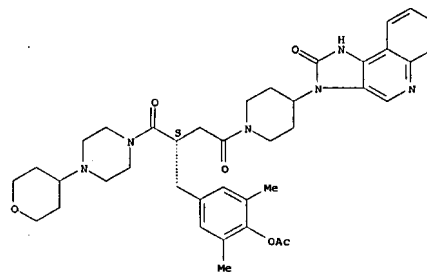


RN 910574-72-0 CAPLUS  
CN Piperazine, 1-((2S)-2-([4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-([4-(acetyloxy)-3,5-dimethylphenyl]methyl)-1,4-dioxobutyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

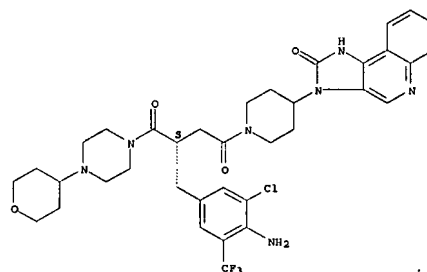
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Erich Leese



RN 910574-76-4 CAPLUS  
CN Piperazine, 1-((2S)-2-([4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl)-1,4-dioxo-4-([4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-([4-(formyloxy)-3,5-dimethylphenyl]methyl)-1,4-dioxobutyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



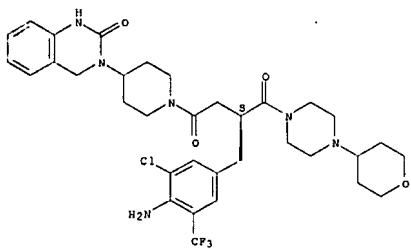
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CN Piperazine, 1-((2S)-2-([4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl)-1,4-dioxo-4-([4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-([4-(acetyloxy)-3,5-dimethylphenyl]methyl)-1,4-dioxobutyl)-4-(tetrahydro-2H-pyran-4-yl))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

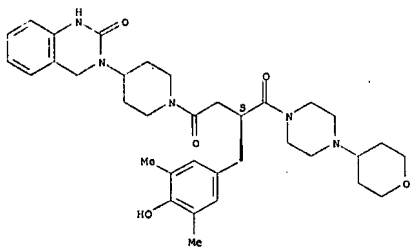
10/513699



RN 910574-86-6 CAPLUS

CN Piperazine, 1-[(2S)-4-{4-[(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910574-89-9 CAPLUS

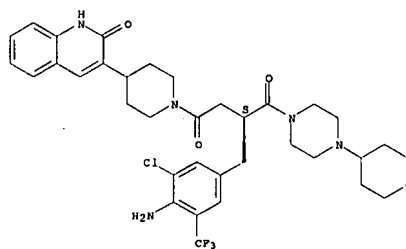
CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-4-{4-[(1,2-dihydro-2-oxo-3-quinolinyl)-1-piperidinyl]-1,4-dioxobutyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

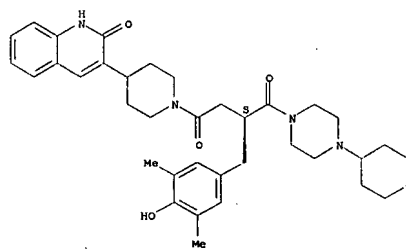
10/513699



RN 910574-92-4 CAPLUS

CN Piperazine, 1-[(2S)-4-{4-[(1,2-dihydro-2-oxo-3-quinolinyl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910575-15-4 CAPLUS

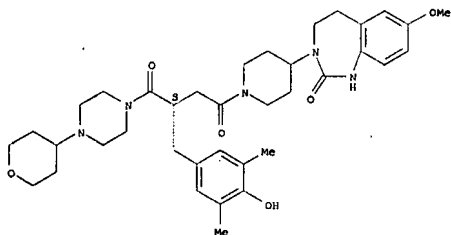
CN Piperazine, 1-[(2S)-2-[[4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-{4-[(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

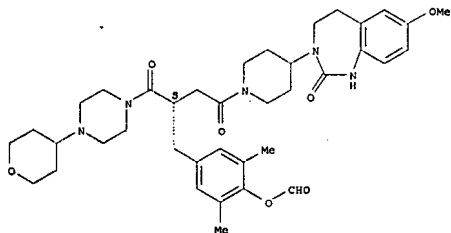
10/513699



RN 910575-16-5 CAPLUS

CN Piperazine, 1-[(2S)-2-[[4-{(formyloxy)-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-{4-[(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910575-17-6 CAPLUS

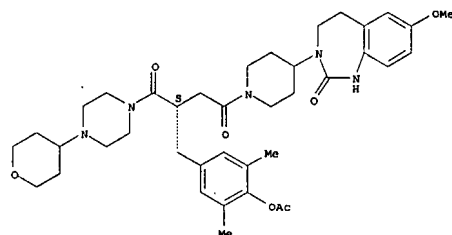
CN Piperazine, 1-[(2S)-2-[[4-{(acetyloxy)-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-{4-[(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

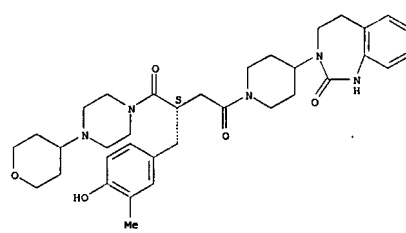
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RN 910575-24-5 CAPLUS

CN Piperazine, 1-[(2S)-2-[[4-hydroxy-3-methylphenyl)methyl]-1,4-dioxo-4-{4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910575-25-6 CAPLUS

CN Piperazine, 1-[(2S)-2-[[4-{(formyloxy)-3-methylphenyl)methyl]-1,4-dioxo-4-{4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl}-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

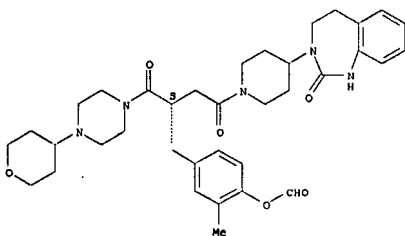
Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

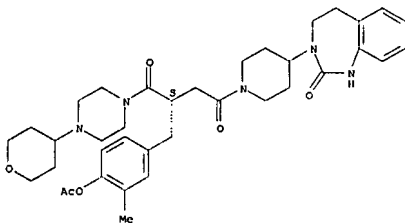


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RN 910575-26-7 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[4-(acetoxy)-3-methylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



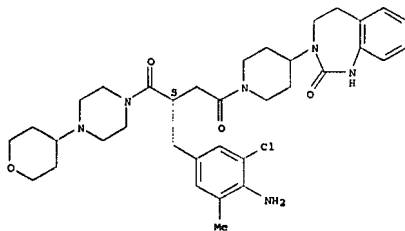
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Absolute stereochemistry.

&lt;12/04/2007&gt;

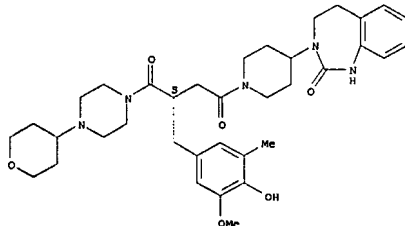
Erich Leese

10/513699



RN 914381-61-6 CAPLUS  
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Absolute stereochemistry.



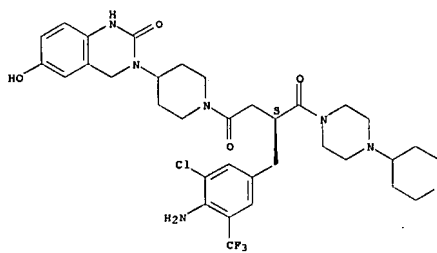
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Absolute stereochemistry.

&lt;12/04/2007&gt;

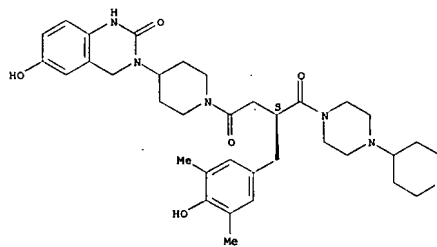
Erich Leese

10/513699



RN 910575-34-7 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[4-(1,2-dihydro-6-hydroxy-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-2-[[4-(hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



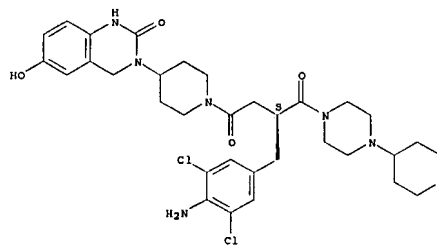
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Absolute stereochemistry.

&lt;12/04/2007&gt;

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10/513699



L12 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN  
ACCESSION NUMBER: 2006:1005190 CAPLUS  
DOCUMENT NUMBER: 145:356814  
TITLE: Preparation of 2-oxo-1,2,4,5-tetrahydro-1,3-benzodiazepin-3-ylpiperidines and related compounds as CGRP receptor antagonists  
INVENTOR(S): Mueller, Stephan Georg; Rudolf, Klaus; Lustenberger, Philipp; Stenkamp, Dirk; Santagostino, Marco; Paleari, Fabio; Doods, Henri; Arndt, Kirsten; Schaezle, Gerhard  
PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.  
SOURCE: PCT Int. Appl., 23pp.  
CODEN: PIXX02  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 6  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006100009	A1	20060928	WO 2006-EP2515	20060318
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NO, NI, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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&lt;12/04/2007&gt;

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polycycloalkyl ring with provisos) and their pharmacologically acceptable salts and formulations were prepared. For example, benzodiazepinylpiperidine II was prepared from 5-amino-m-cresol in 8-steps. In GCR receptor inhibition assays, compds. I exhibited IC50 values ≤ 10000 nM.

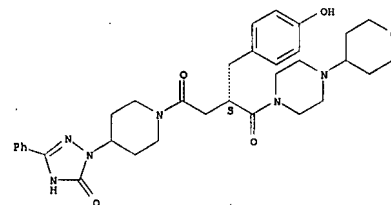
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910573-45-4P 910573-47-6P 910573-50-1P  
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910575-16-5P 910575-17-6P 910575-24-5P  
910575-25-6P 910575-26-7P 910575-31-4P  
910575-34-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of oxetahydrobenzodiazepinylpiperidines and related compounds as GCRP receptor antagonists)

RN 910573-18-1 CAPLUS

CN Piperazine, 1-[(2S)-4-[[4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[[4-hydroxyphenyl]methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) [CA INDEX NAME]

Absolute stereochemistry.

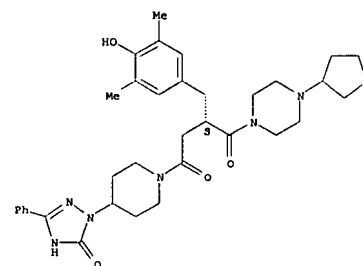


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RN      910573-24-9  CAPLUS
CN      Piperazine, 1-[(2S)-4-{4-{2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-
        yl}-1-piperidinyl)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-
        dioxobutyl}-4-(tetrahydro-2H-pyran-3-yl)]- (9CI) (CA INDEX NAME)

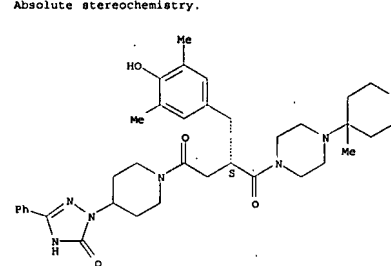
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<12/04/2007> Erich Leese



RN 910573-33-0 CAPLUS  
CN Piperazine, 1-[(2S)-4-{4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl}-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-4-methyl-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

**Absolute stereochemistry.**

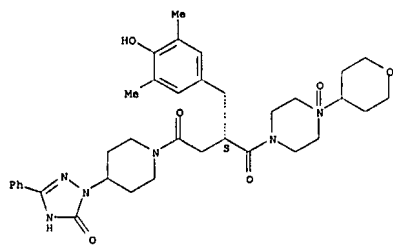


RN 910573-39-6 CAPLUS  
CN Piperazine, 1-[(2S)-4-[4-(2,5-dihydro-5-oxo-3-phenyl-1H-1,2,4-triazol-1-yl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl))-4-oxide (9CI) (CA INDEX NAME)

### Absolute stereochemistry

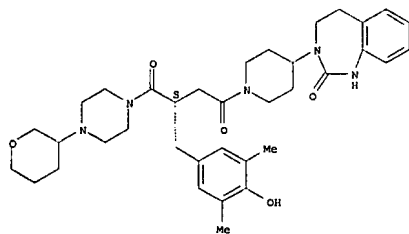
12/04/2007

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RN 910573-45-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-3-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



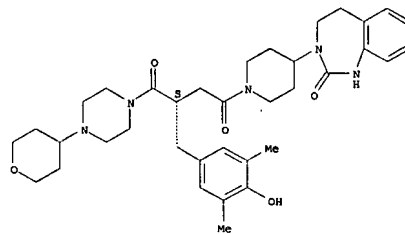
RN 910573-47-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

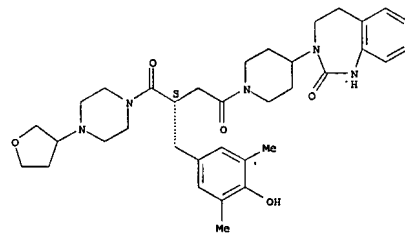
Erich Leese

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RN 910573-50-1 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-3-furanyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



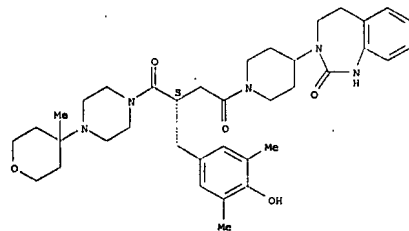
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Absolute stereochemistry.

&lt;12/04/2007&gt;

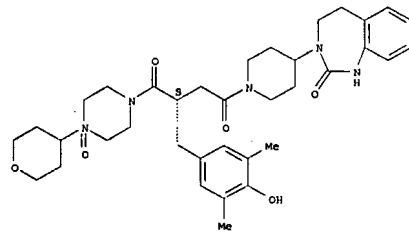
Erich Leese

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RN 910573-59-0 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)-, 4-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



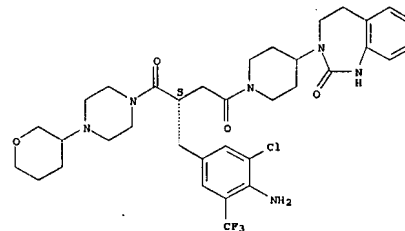
RN 910573-65-8 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-3-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

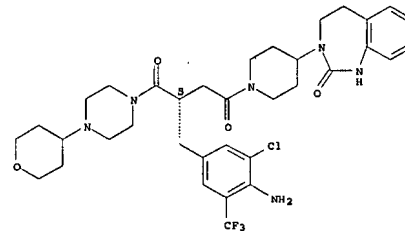
Erich Leese

10/513699



RN 910573-68-1 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



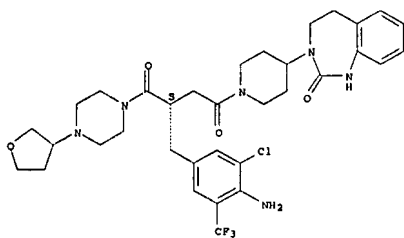
RN 910573-71-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-3-furanyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

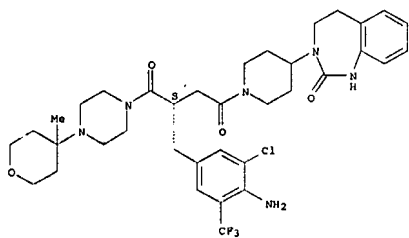
Erich Leese

10/513699



RN 910573-74-9 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



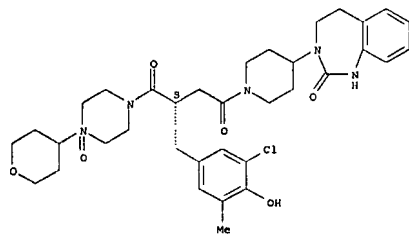
RN 910573-80-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)-, 4-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

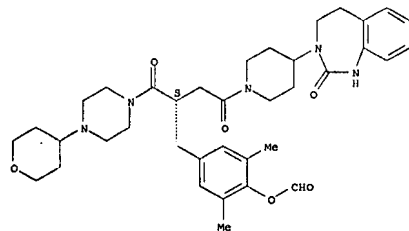
Erich Leese

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RN 910573-93-2 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(formyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



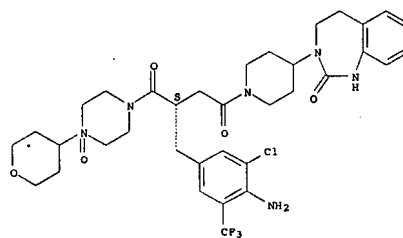
RN 910573-94-3 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(acetyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

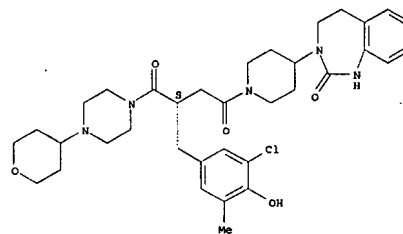
Erich Leese

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RN 910573-86-3 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3-chloro-4-hydroxy-5-methylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



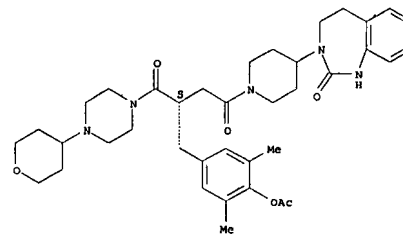
RN 910573-88-5 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3-chloro-4-hydroxy-5-methylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)-, 4-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

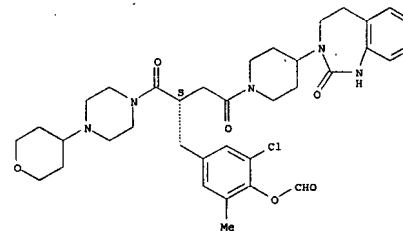
Erich Leese

10/513699



RN 910573-97-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3-chloro-4-(formyloxy)-5-methylphenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



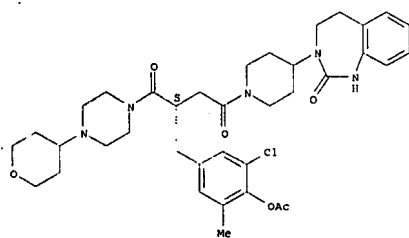
RN 910573-98-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(acetyloxy)-3-chloro-5-methylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

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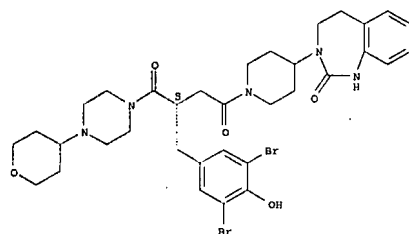
10/513699



RN 910574-02-6 CAPLUS

CN Piperazine, 1-[(2S)-2-[(3,5-dibromo-4-hydroxyphenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910574-05-9 CAPLUS

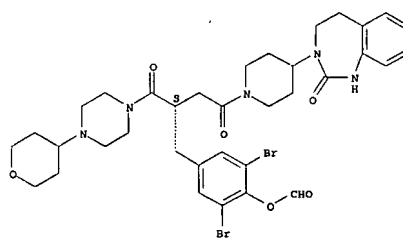
CN Piperazine, 1-[(2S)-2-[(3,5-dibromo-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

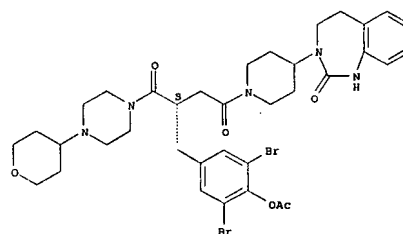
10/513699



RN 910574-08-2 CAPLUS

CN Piperazine, 1-[(2S)-2-[(4-(acetyloxy)-3,5-dibromophenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910574-11-7 CAPLUS

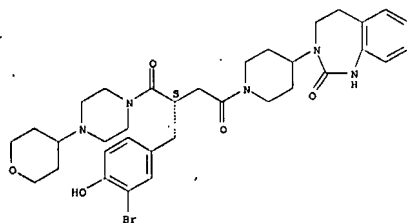
CN Piperazine, 1-[(2S)-2-[(3-bromo-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

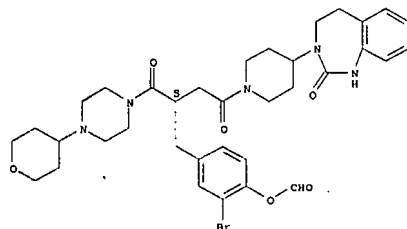
10/513699



RN 910574-14-0 CAPLUS

CN Piperazine, 1-[(2S)-2-[(3-bromo-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910574-17-3 CAPLUS

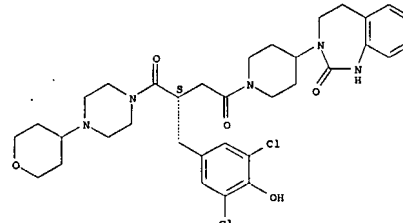
CN Piperazine, 1-[(2S)-2-[(3,5-dichloro-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

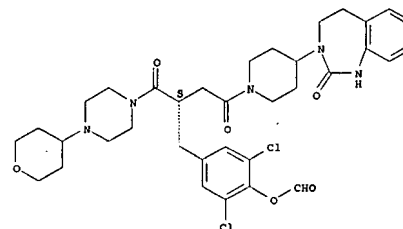
10/513699



RN 910574-20-8 CAPLUS

CN Piperazine, 1-[(2S)-2-[(3,5-dichloro-4-(formyloxy)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 910574-23-1 CAPLUS

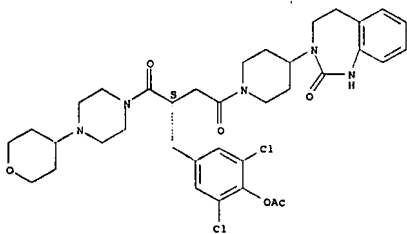
CN Piperazine, 1-[(2S)-2-[(4-(acetyloxy)-3,5-dichlorophenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

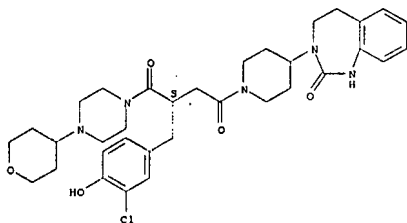
Erich Leese

10/513699



RN 910574-26-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[3-chloro-4-hydroxyphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



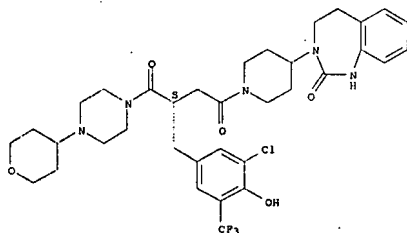
RN 910574-29-7 CAPLUS  
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Absolute stereochemistry.

&lt;12/04/2007&gt;

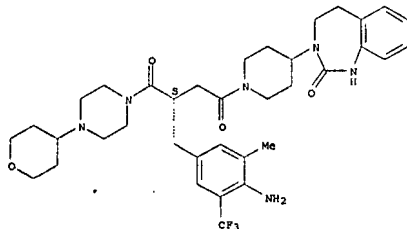
Erich Leese

10/513699



RN 910574-48-0 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[4-amino-3-methyl-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



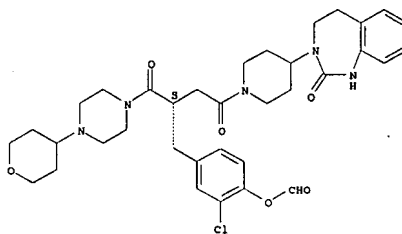
RN 910574-54-8 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[4-amino-3,5-bis(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

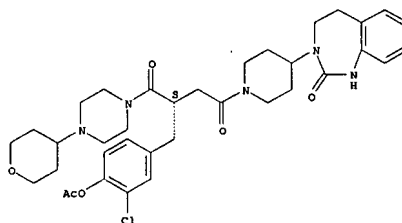
Erich Leese

10/513699



RN 910574-32-2 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[4-(acetyloxy)-3-chlorophenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



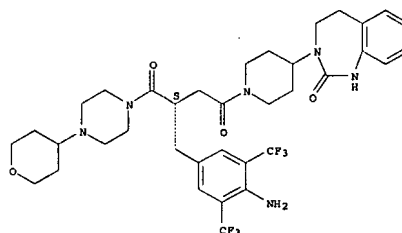
RN 910574-34-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

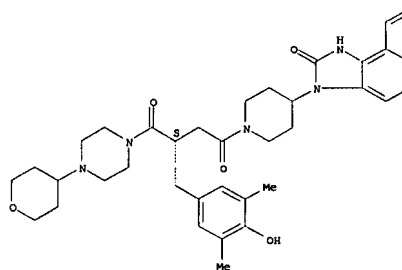
Erich Leese

10/513699



RN 910574-65-1 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-[[4-(hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

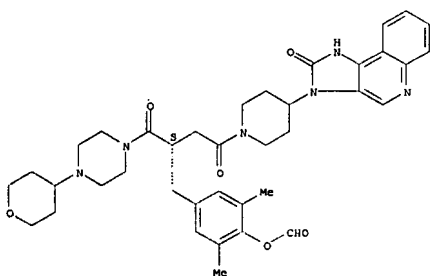


RN 910574-69-5 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[[4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-2-[[4-(formyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

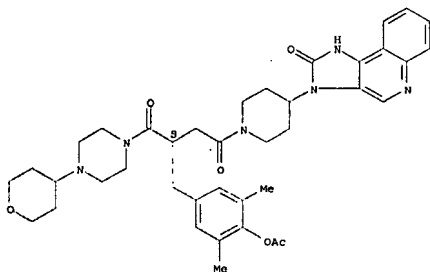
&lt;12/04/2007&gt;

Erich Leese



RN 910574-72-0 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(acetoxy)-3,5-dimethylphenyl]methyl]-4-[4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

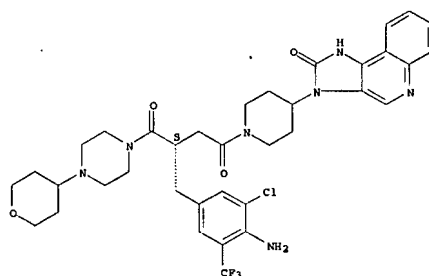


RN 910574-76-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-4-[4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

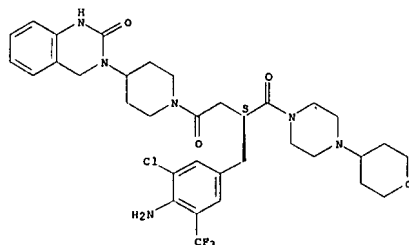
<12/04/2007>

Erich Leese



RN 910574-83-3 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-4-[4-(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

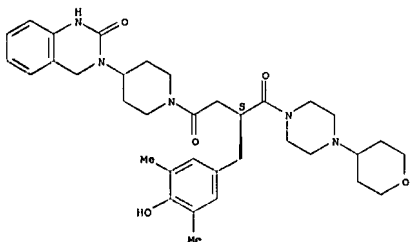


RN 910574-86-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-2-[[4-hydroxy-3,5-dimethylphenyl]methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

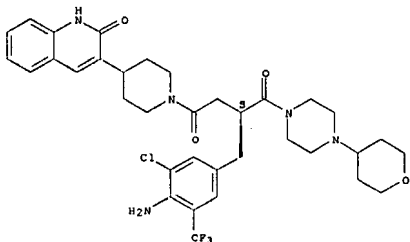
<12/04/2007>

Erich Leese



RN 910574-89-9 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-4-[4-(1,2-dihydro-2-oxo-3H-imidazo[4,5-c]quinolin-3-yl)-1-piperidinyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

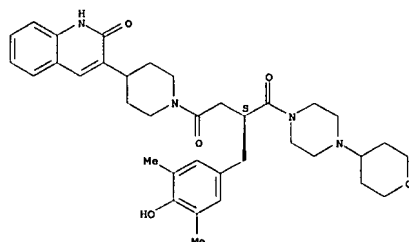


RN 910574-92-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(1,2-dihydro-2-oxo-3-quinolinyl)-1-piperidinyl]-2-[[4-hydroxy-3,5-dimethylphenyl]methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

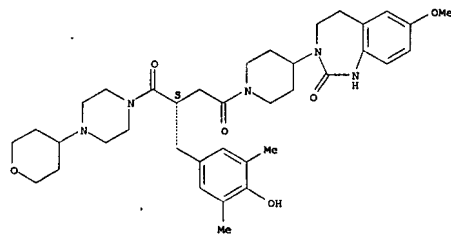
<12/04/2007>

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RN 910575-15-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(hydroxy-3,5-dimethylphenyl]methyl)-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



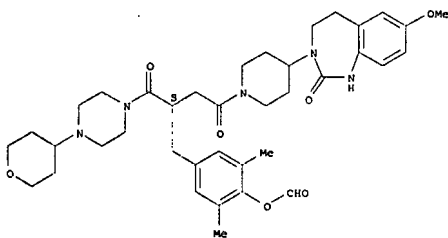
RN 910575-16-5 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(formyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

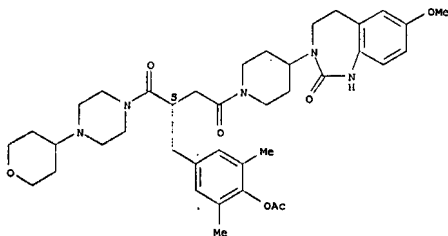
Erich Leese

10/513699



RN 910575-17-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(acetyloxy)-3,5-dimethylphenyl]methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-7-methoxy-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



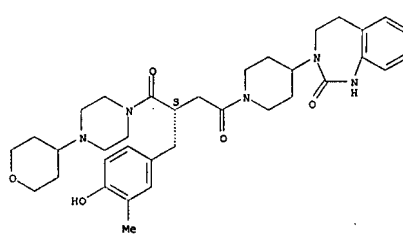
RN 910575-24-5 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(hydroxy-3-methylphenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

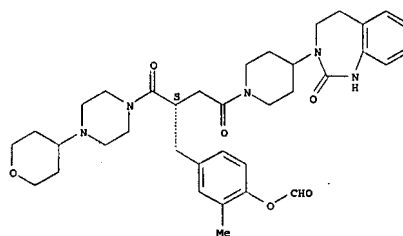
Erich Leese

10/513699



RN 910575-25-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(formyloxy)-3-methylphenyl]methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



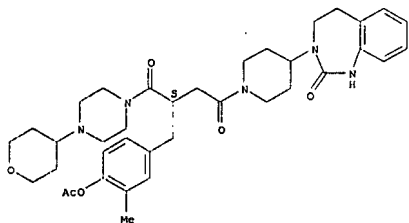
RN 910575-26-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(acetyloxy)-3-methylphenyl]methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

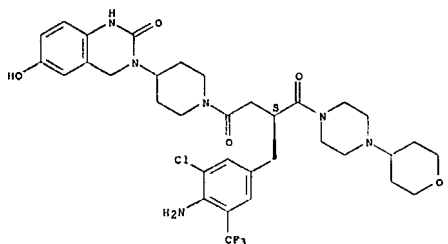
Erich Leese

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RN 910575-31-4 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-4-[(1,2,4,5-tetrahydro-6-hydroxy-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



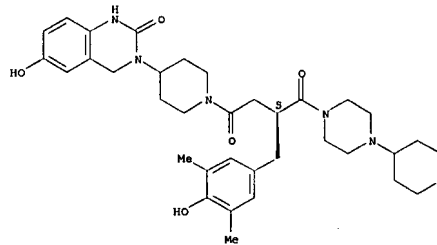
RN 910575-34-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[4-(1,2-dihydro-6-hydroxy-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-2-[[4-(hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(tetrahydro-2H-pyran-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

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REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:656692 CAPLUS  
 DOCUMENT NUMBER: 145:96491  
 TITLE: Use of CORP antagonists in treatment and prevention of hot flushes in prostate cancer patients  
 INVENTOR(S): Rudolf, Klaus; Doods, Henri; Mueller, Stephan Georg; Zamponi, Annette; Lustenberger, Philipp; Stenckamp, Dirk; Arndt, Kirsten; Schaezle, Gerhard; Brickl, Rolf-Stefan  
 PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G.  
 SOURCE: PCT Int. Appl., 46 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006069754	A1	20060706	WO 2005-EP13974	20051223
M:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102004063755	A1	20060720	DE 2004-102004063755	20041229
US 2006154921	A1	20060713	US 2005-301422	20051213
PRIORITY APPLN. INFO.:			DE 2004-102004063755A	20041229

&lt;12/04/2007&gt;

Erich Leese



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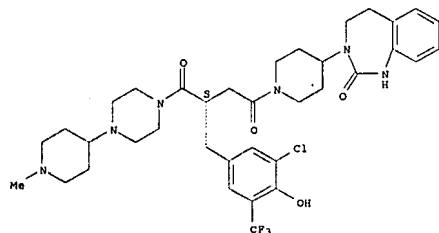
AB The invention discloses a method for treatment or prevention of hot flushes in men who underwent castration, e.g. due to androgen ablation treatment in prostate cancer therapy, comprising administration of an effective amount of a selected CORP antagonist to the patient, as well as the use of the active compds. for the manufacture of a pharmaceutical composition

intended to be used in this method.

IT 894071-73-9 894071-73-9D, salts  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(CORP antagonists for treatment and prevention of hot flushes in prostate cancer patients)

RN 894071-73-9 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 894071-73-9 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

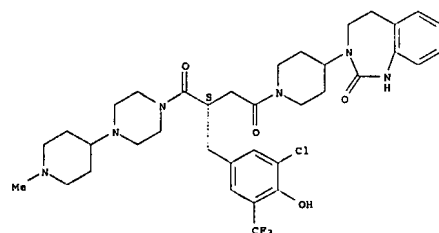
10/513699

thereof for combating menopausal hot flushes. A variety of formations are included.

IT 894071-73-9 894071-73-9D, salts  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(CORP antagonists for combating menopausal hot flushes)

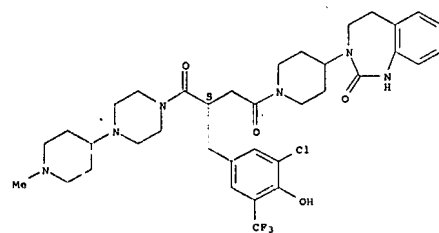
RN 894071-73-9 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 894071-73-9 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

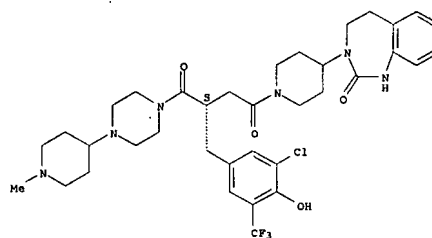
Absolute stereochemistry.



&lt;12/04/2007&gt;

Erich Leese

10/513699



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2006:636811 CAPLUS

DOCUMENT NUMBER: 145:76714

TITLE: Use of selected CORP antagonists for combating menopausal hot flushes

INVENTOR(S): Rudolf, Klaus; Doods, Henri; Mueller, Stephan Georg; Zamponi, Annette; Lustenberger, Philipp; Arndt, Kirsten; Schaenzle, Gerhard; Stenkamp, Dirk; Brickl, Rolf-Stefan

PATENT ASSIGNER(S): Boehringer Ingelheim International GmbH, Germany

SOURCE: U.S. Pat. Appl. Publ., 21 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006142274	A1	20060629	US 2005-301446	20051213
DE 102004063752	A1	20060713	DE 2004-102004063752	20041229
WO 2006072415	A1	20060713	WO 2005-EP13972	20051223

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TO, BW, OH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: DE 2004-102004063752A 20041229

AB The invention discloses the use of selected CORP antagonists, the physiol. acceptable salts thereof or the hydrates or the hydrates of the salts

&lt;12/04/2007&gt;

Erich Leese

10/513699

L12 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2006:636805 CAPLUS

DOCUMENT NUMBER: 145:96481

TITLE: Use of selected CORP antagonists in combination with other antimigraine drugs for the treatment of migraine

INVENTOR(S): Rudolf, Klaus; Doods, Henri; Mueller, Stephan Georg; Zamponi, Annette; Lustenberger, Philipp; Arndt, Kirsten; Schaenzle, Gerhard; Stenkamp, Dirk; Brickl, Rolf-Stefan

PATENT ASSIGNER(S): Boehringer Ingelheim International GmbH, Germany

SOURCE: U.S. Pat. Appl. Publ., 22 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006142273	A1	20060629	US 2005-275169	20051216
DE 102004063753	A1	20060713	DE 2004-102004063753	20041229
WO 2006072413	A1	20060713	WO 2005-EP13964	20051223

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RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TO, BW, OH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: DE 2004-102004063753A 20041229

AB The invention discloses a process for the treatment or prevention of indications which are selected from among the group comprising headaches, migraine and cluster headaches, the process comprising the joint administration of a therapeutically effective amount of a selected CORP antagonist (A), a physiol. acceptable salt thereof or a hydrate of the salt and a therapeutically effective amount of a second or third active anti-migraine medicament (B), particularly sumatriptan, zolmitriptan, or dihydroergotamine, or a physiol. acceptable salt thereof, as well as the corresponding pharmaceutical compns. and the preparation thereof. A variety of formulations are included.

IT 894071-73-9 894071-73-9D, salts 894761-34-3

894761-39-8 894761-42-3 894761-51-4

894762-03-9 894762-06-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CORP antagonists in combination with other antimigraine drugs for treatment of migraine)

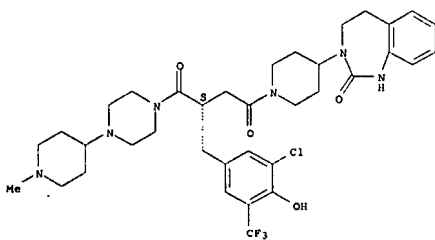
RN 894071-73-9 CAPLUS

CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

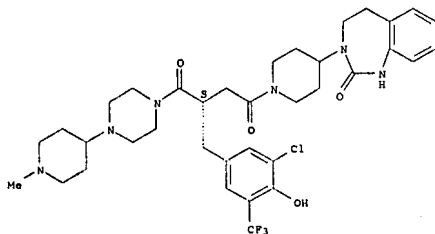
&lt;12/04/2007&gt;

Erich Leese



RN 894071-73-9 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 894761-34-3 CAPLUS  
 CN 2H-1,2-Benzothiazine-3-carboxamide, 4-hydroxy-2-methyl-N-2-pyridinyl-, 1,1-dioxide, mixt. with 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)piperazine (9CI) (CA INDEX NAME)

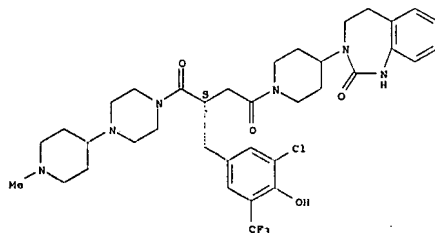
CM 1

CRN 894073-73-9  
 CMF C36 H46 Cl P3 N6 O4

Absolute stereochemistry.

<12/04/2007>

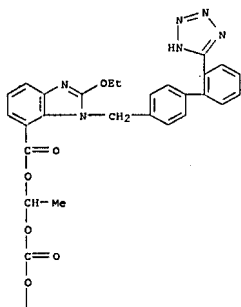
Erich Leese



CM 2

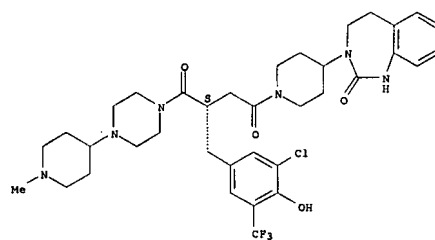
CRN 145040-37-5  
 CMF C33 H34 N6 O6

PAGE 1-A



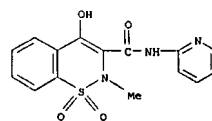
<12/04/2007>

Erich Leese



CM 2

CRN 36322-90-4  
 CMF C15 H13 N3 O4 S



RN 894761-39-8 CAPLUS  
 CN 1H-Benzimidazole-7-carboxylic acid, 2-ethoxy-1-[[2'-(1H-tetrazol-5-yl)(1,1'-biphenyl)-4-yl]methyl]-, 1-[[[(cyclohexyloxy)carbonyl]oxy]ethyl ester, mixt. with 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)piperazine (9CI) (CA INDEX NAME)

CM 1

CRN 894071-73-9  
 CMF C36 H46 Cl P3 N6 O4

Absolute stereochemistry.

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PAGE 2-A

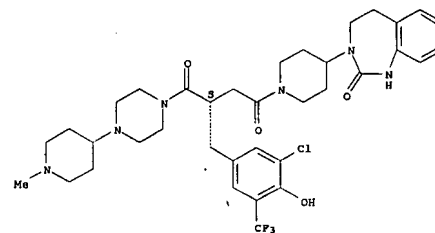


RN 894761-42-3 CAPLUS  
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CM 1

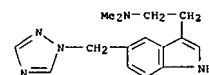
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 CMF C36 H46 Cl P3 N6 O4

Absolute stereochemistry.



CM 2

CRN 144034-80-0  
 CMF C15 H19 N5



RN 894761-51-4 CAPLUS  
 CN L-Valine, N-(1-oxopentyl)-N-[[2'-(1H-tetrazol-5-yl)(1,1'-biphenyl)-4-yl]methyl]-, mixt. with 1-[(2S)-2-[[3-chloro-4-hydroxy-5-

<12/04/2007>

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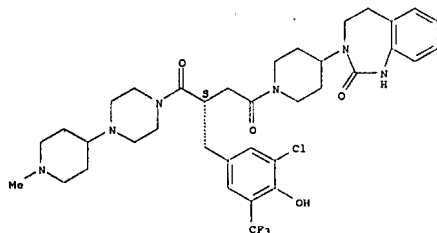
10/513699

(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)piperazine (9CI) (CA INDEX NAME)

CM 1

CRN 894071-73-9  
CMF C36 H46 Cl F3 N6 O4

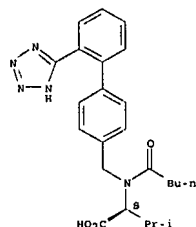
Absolute stereochemistry.



CM 2

CRN 137862-53-4  
CMF C24 H29 N5 O3

Absolute stereochemistry.



RN 894762-03-9 CAPLUS

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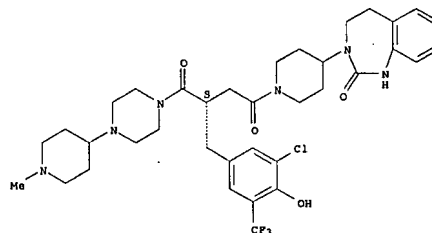
10/513699

1]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-1-piperidinyl)-, mixt. with N-methyl-3-(1-methyl-4-piperidinyl)-1H-indole-5-ethanesulfonamide (9CI) (CA INDEX NAME)

CM 1

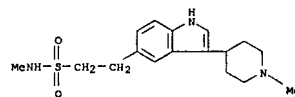
CRN 894071-73-9  
CMF C36 H46 Cl F3 N6 O4

Absolute stereochemistry.



CM 2

CRN 121679-13-8  
CMF C17 H25 N3 O2 S



RN 894762-06-2 CAPLUS

Benzenesulfonic acid, 4-methyl-4-(2-methylpropyl)-, mixt. with 1-[(2S)-2-[[3-chloro-4-hydroxy-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)piperazine (9CI) (CA INDEX NAME)

CM 1

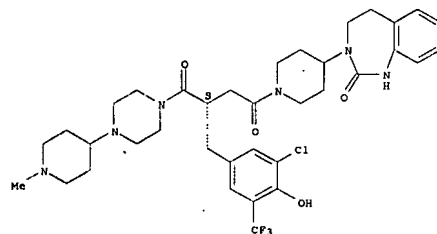
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&lt;12/04/2007&gt;

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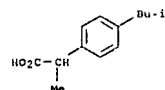
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Absolute stereochemistry.



CM 2

CRN 15687-27-1  
CMF C13 H18 O2



L12 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2005:1064565 CAPLUS

DOCUMENT NUMBER: 143:106304

TITLE: Preparation isindazoles and related compounds as cgrp antagonists

INVENTOR(S): Lustenberger, Philipp; Rudolf, Klaus; Mueller, Stephan; Georg, Stenkamp, Dirk; Doods, Henri; Arndt, Kirsten; Schaensle, Gerhard

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma GmbH &amp; Co. KG

SOURCE: PCT Int. Appl., 132 pp.

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005084672	A1	20050915	WO 2005-EP2082	20050226
W: AB, AG, AL, AM, AT, AU, A2, BA, BB, BO, BR, BW, BY, BZ, CA, CH,				

&lt;12/04/2007&gt;

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10/513699

CM, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MO, MX, MY, NA, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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DE 102004010254 A1 20050922 DE 2004-102004010254A 20040303  
DE 102004028751 A1 20060105 DE 2004-102004028751A 20040615  
EP 1722792 A1 20061122 EP 2005-715592 20050226  
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US 2005227968 A1 20051013 US 2005-73341 20050303  
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PRIORITY APPLN. INFO.: DE 2004-102004010254A 20040303  
DE 2004-102004028751A 20040615  
WO 2005-EP2082 W 20050226

OTHER SOURCE(S): MARPAT 143:106304

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = N, CH, B = N, CH; D = H, Me; E = H, halo, Me, etc.; X = CH2, NH, R1 = (un)substituted 3-phenyl-2-pyrazolin-5-one, tetrahydro-2H-benzo-1,3-diazepin-2-one with proviso] and their pharmaceutically acceptable salts and formulations were prepared. For example, coupling of carboxylic acid II and 1-methyl-4-piperidin-4-ylpiperazine afforded claimed isindazole III in 34% yield. In cgrp antagonist assays, compds. I exhibited IC50 values equal to or < 10000 nM.

IT 864536-44-7P 864536-45-8P 864536-50-5P  
864536-52-7P 864536-78-7P 864536-79-8P  
864536-84-5P 864536-86-7P 864537-09-7P  
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864537-39-3P 864537-40-6P 864537-45-1P  
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864537-82-6P 864537-87-1P 864537-88-2P  
RL: PAC (Pharmacological Activity); SPN (Synthetic Preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USBS (Uses)

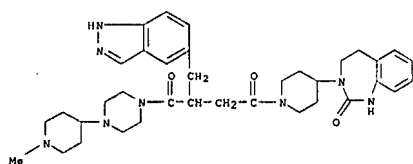
(preparation isindazoles and related compds. as cgrp antagonists medicaments)

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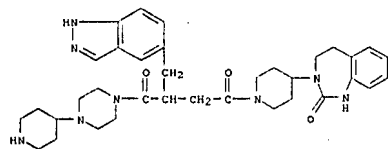
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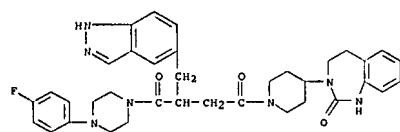
Erich Leese



RN 864536-45-8 CAPLUS  
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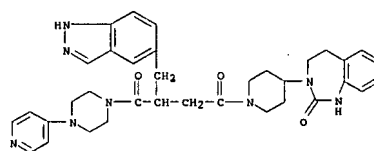
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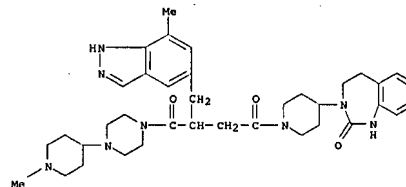
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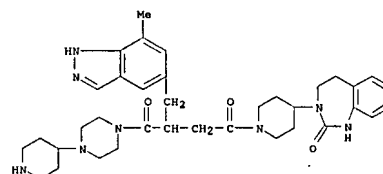
Erich Leese



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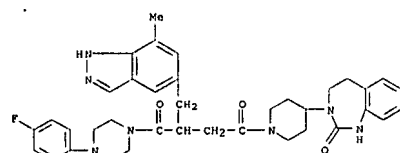


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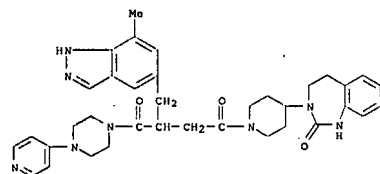
&lt;12/04/2007&gt;

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piperidinyl]butyl)-9CI] (CA INDEX NAME)



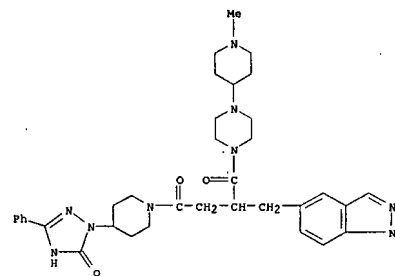
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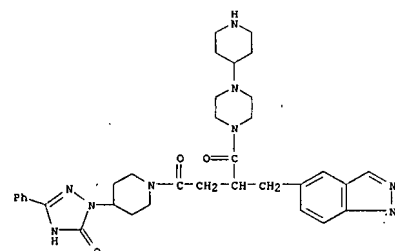
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&lt;12/04/2007&gt;

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RN 864537-10-0 CAPLUS  
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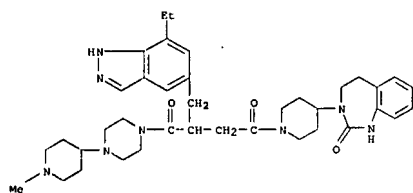


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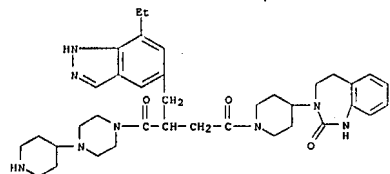
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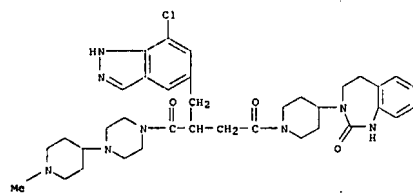
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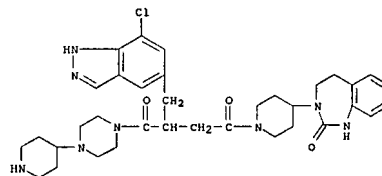


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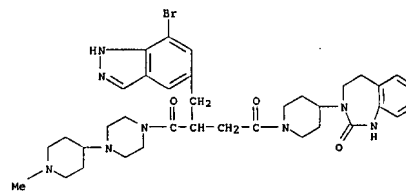
Erich Leese

10/513699

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RN 864537-45-1 CAPLUS  
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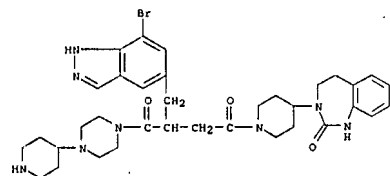


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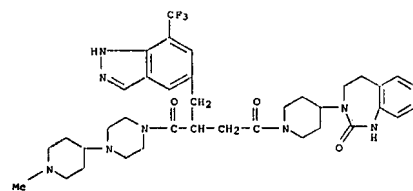
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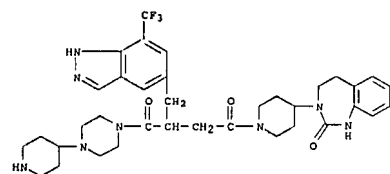
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RN 864537-52-0 CAPLUS  
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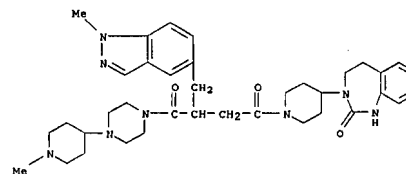
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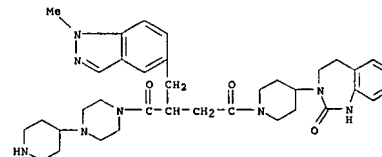
Erich Leese

10/513699

CN Piperazine, 1-[2-[(1-methyl-1H-indazol-5-yl)methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



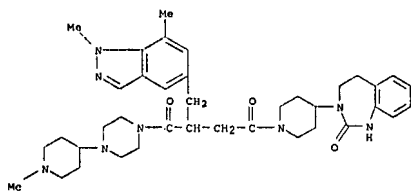
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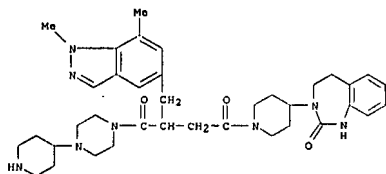
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&lt;12/04/2007&gt;

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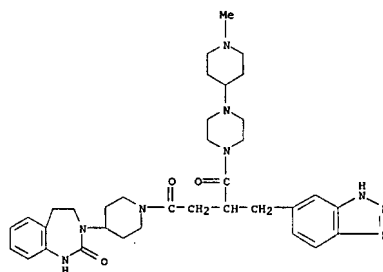
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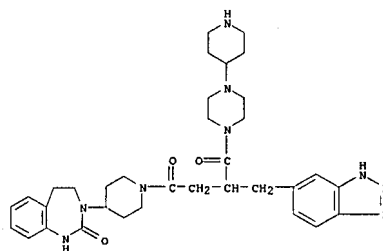
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&lt;12/04/2007&gt;

Erich Leese



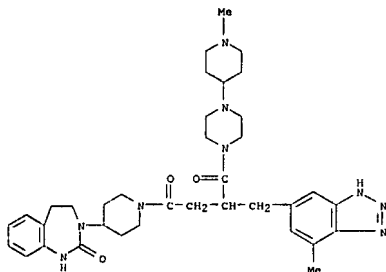
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CN Piperazine, 1-[2-(1H-benzotriazol-5-ylmethyl)-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



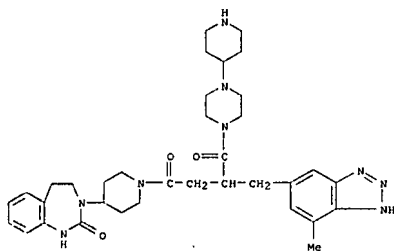
RN 864537-75-7 CAPLUS  
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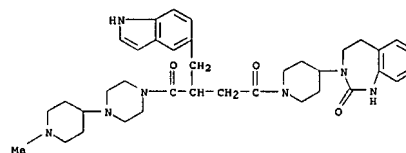
RN 864537-76-8 CAPLUS  
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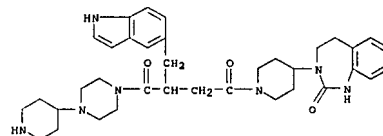
RN 864537-81-5 CAPLUS  
CN Piperazine, 1-[2-(1H-indol-5-ylmethyl)-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

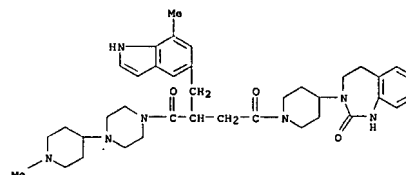
Erich Leese



RN 864537-82-6 CAPLUS  
CN Piperazine, 1-[2-(1H-indol-5-ylmethyl)-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)



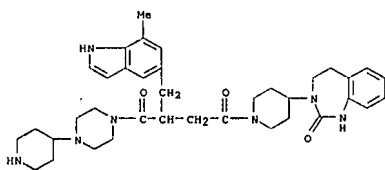
RN 864537-87-1 CAPLUS  
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RN 864537-88-2 CAPLUS  
CN Piperazine, 1-[2-((7-methyl-1H-indol-5-yl)methyl)-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(4-piperidinyl)- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2005:638773 CAPLUS  
 DOCUMENT NUMBER: 143:133401  
 TITLE: Preparation of diazabicyclics as calcitonin gene related peptide receptor antagonists  
 INVENTOR(S): Degnan, Andrew P.; Chen, Ling; Clivello, Rita; Dubowchik, Gene M.; Han, Xiaojun; Jiang, Xiang Jun J.; Macor, John E.; Tora, George  
 PATENT ASSIGNOR(S): Bristol-Myers Squibb Company, USA  
 SOURCE: PCT Int. Appl., 385 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065779	A1	20050721	WO 2003-053879	20031205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PA, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CA 2549330	A1	20050721	CA 2003-2549330	20031205
AU 2003297694	A1	20050812	AU 2003-297694	20031205
EP 1689493	A1	20050816	EP 2003-819270	20031205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003018637	A	20030721	BR 2003-18637	20031205
CN 1917921	A	20030721	CN 2003-8011030	20031205
IN 2006D02822	A	20030803	IN 2006-DN2822	20060518
MX 2006PA06070	A	20060719	MX 2006-PA6070	20060529
NO 200602648	A	20060802	NO 2006-2648	20060608
PRIORITY APPL. INFO.:			EP 2003-819270	A 20031205
			WO 2003-053879	W 20031205
OTHER SOURCE(S): MARPAT 143:133401				

&lt;12/04/2007&gt;

Erich Leese

INVENTOR(S): Bosch, Michael; Wagnon, Jean  
 PATENT ASSIGNOR(S): Sanofi-Synthelabo, Fr.  
 SOURCE: Fr. Demande, 31 pp.  
 CODEN: FRXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2862968	A1	20050603	FR 2003-14172	20031201
FR 2862968	B1	20060804		
WO 2005054229	A1	20050616	WO 2004-FR3066	20041130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PA, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
JP 2007512384	T	20070517	JP 2006-541974	20041130
US 2007037819	A1	20070215	US 2006-420505	20060526
PRIORITY APPL. INFO.:			FR 2003-14172	A 20031201
			WO 2004-FR3066	W 20041130
OTHER SOURCE(S): MARPAT 143:26636				

OI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I (wherein X = (CH<sub>2</sub>)<sub>n</sub>; n = 1-2; R<sub>1</sub> = CF<sub>3</sub>; R<sub>2</sub> = H, alkyl, R<sub>3</sub> = (un)substituted pyrrolyl, 1,2,3-thiadiazolyl, pyrazinyl, etc.; and their salts, hydrates and solvates) were prepared as inhibitors of the binding of 125I NPY to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NPY (nerve growth factor) (for treating p75NTR related diseases (no data)). For example, I was prepared by reacting 1-[4-(aminomethyl)-4-(3-(trifluoromethyl)phenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone (preparation given) and 1-methyl-2-pyrrolicarboxaldehyde in THF in the presence of NaBH(OAc)/AcOH. I inhibited the binding of 125I NPY to p75NTR receptor with IC<sub>50</sub> in the range of 10<sup>-11</sup> M to 10<sup>-6</sup> M at the biochem. level. I inhibited the pro-apoptotic effect induced by NPY, via growing cells expressing preferentially p75NTR, with IC<sub>50</sub> in the range of 10<sup>-11</sup> M to 10<sup>-6</sup> M at the cellular level.

IT 852936-29-9P, [(1-Methyl-1H-pyrrol-2-yl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-31-3P 852936-32-4P, N-Methyl-1-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-

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Erich Leese

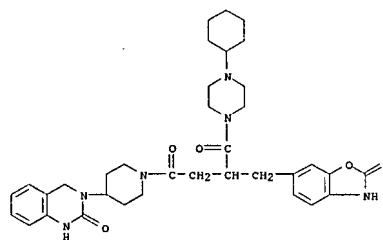
OI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Diazabicyclics I (m, n = 0-2; V = (un)substituted NH<sub>2</sub>, OH, Q = (un)substituted alkyl, NH<sub>2</sub>, NHC(=O)H, NHC(=O)NH<sub>2</sub>; U = CH<sub>2</sub>, NH; D = O, NCN, alkylsulfonylimino; A = C, N, CH; E = (un)substituted heterocyclic; with proviso) were prepared for use as antagonists of calcitonin gene-related peptide receptors for treatment of neurogenic vasodilation, neurogenic inflammation, migraine and headaches, thermal injury, circulatory shock, flushing associated with menopause, airway inflammatory diseases, such as asthma and chronic obstructive pulmonary disease (COPD). E.g., a multi-step synthesis of II which had IC<sub>50</sub> for calcitonin gene related peptide receptor binding of ≤ 10 nM, was given. The pharmaceutical composition comprising the compound I is claimed.

IT 773886-69-4P  
 RL: PAC (Pharmacological activity), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses)  
 (Preparation of diazabicyclics as calcitonin gene related peptide receptor antagonists)

RN 773886-69-4 CAPLUS  
 CN Piperazine, 1-cyclohexyl-4-[2-[(2,3-dihydro-2-oxo-6-benzoxazolyl)methyl]-4-[4-(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]- (SCI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

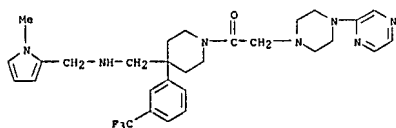
L12 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2005:470969 CAPLUS  
 DOCUMENT NUMBER: 143:26636  
 TITLE: Preparation of 4-[(Arylmethyl)aminomethyl]piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR

&lt;12/04/2007&gt;

Erich Leese

(trifluoromethyl)phenyl]piperidin-4-yl]-N-[(1,3-thiazol-2-yl)methyl]methanamine trihydrochloride 852936-33-5P, (2-Pyrilymethyl) [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-34-6P, (3-Pyrilymethyl) [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-35-7P, [(5-Methyl-2-furyl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-36-8P, [(4,6-Dimethyl-2-furyl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine trihydrochloride 852936-37-9P, [(5-Chloro-2-furyl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-38-0P, [(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine trihydrochloride 852936-39-1P, 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[1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-47-1P, [(3-Methyl-2-thienyl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-48-2P 852936-49-3P, N-Methyl-1-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-50-6P, (1H-Imidazol-2-yl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine 852936-51-7P, (1H-Imidazol-5-yl)methyl] [1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylamine tetrahydrochloride 852936-52-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-53-9P, 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N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-59-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-60-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-61-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-62-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-63-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-64-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-65-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-66-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-67-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-68-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-69-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-70-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-71-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-72-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-73-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-74-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-75-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-76-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-77-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-78-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-79-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-80-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-81-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-82-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-83-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-84-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-85-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-86-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-87-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-88-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-89-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-90-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-91-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-92-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-93-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-94-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-95-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-96-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-97-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-98-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-99-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-100-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-101-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-102-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-103-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-104-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-105-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-106-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-107-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-108-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-109-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-110-6P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-111-7P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-112-8P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-113-9P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-114-0P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-115-1P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-116-2P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-117-3P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-118-4P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl]methylmethanamine tetrahydrochloride 852936-119-5P, N-Methyl-1-[(4-methyl-1H-imidazol-5-yl)-N-[(1-[(4-(pyrazin-2-yl)piperazin-1-yl)acetyl]-4-[3-(trifluorom

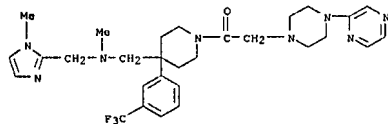
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RN 852936-31-3 CAPLUS  
CN 4-Piperidinemethanamine, N-methyl-N-[(1-methyl-1H-imidazol-2-yl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

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CRN 852936-30-2  
CMP C29 H37 F3 N8 O



CM 2

CRN 144-62-7  
CMP C2 H2 O4

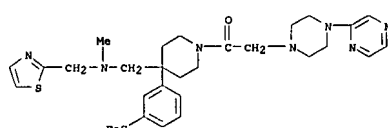


RN 852936-32-4 CAPLUS  
CN 4-Piperidinemethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(2-thiazolylmethyl)-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

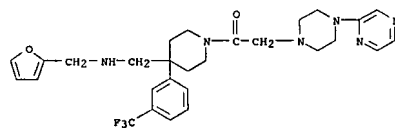
Erich Leese

10/513699

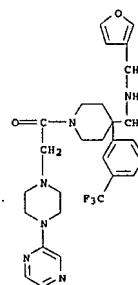


●3 HCl

RN 852936-33-5 CAPLUS  
CN 4-Piperidinemethanamine, N-(2-furanyl)methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852936-34-6 CAPLUS  
CN 4-Piperidinemethanamine, N-(3-furanyl)methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

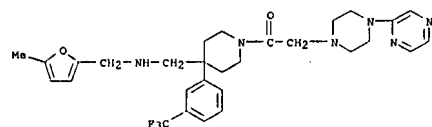


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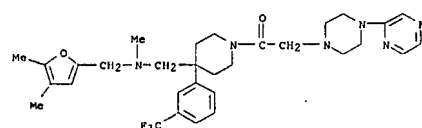
Erich Leese

10/513699

RN 852936-35-7 CAPLUS  
CN 4-Piperidinemethanamine, N-[(5-methyl-2-furanyl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

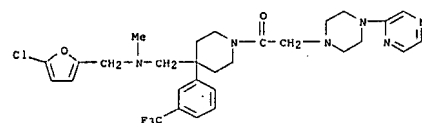


RN 852936-36-8 CAPLUS  
CN 4-Piperidinemethanamine, N-[(4,5-dimethyl-2-furanyl)methyl]-N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



●3 HCl

RN 852936-37-9 CAPLUS  
CN 4-Piperidinemethanamine, N-[(5-chloro-2-furanyl)methyl]-N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

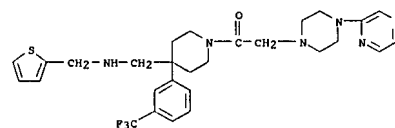


RN 852936-38-0 CAPLUS  
CN 4-Piperidinemethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(2-thienylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

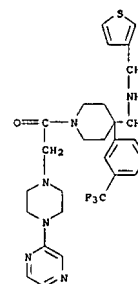
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Erich Leese

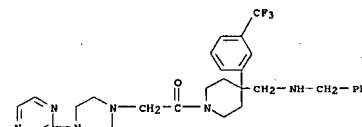
10/513699



RN 852936-39-1 CAPLUS  
CN 4-Piperidinemethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(3-thienylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852936-40-4 CAPLUS  
CN 4-Piperidinemethanamine, N-(phenylmethyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852936-41-5 CAPLUS  
CN 4-Piperidinemethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(2-thienylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

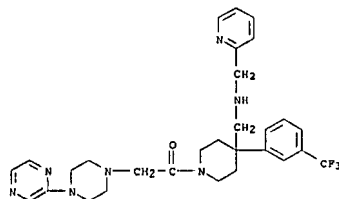
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Erich Leese



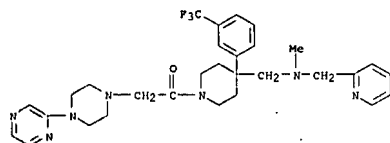
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pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



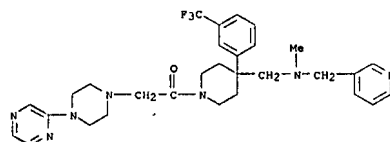
RN 852936-42-6 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(2-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852936-43-7 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(3-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

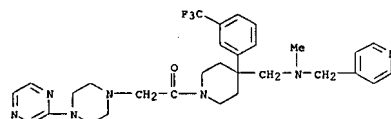


● 4 HCl

&lt;12/04/2007&gt;

Erich Leese

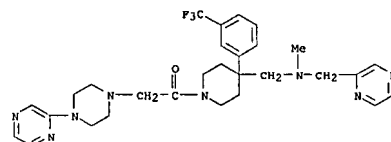
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RN 852936-44-8 CAPLUS  
CN 4-Piperidinemethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-(4-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)

● 4 HCl

RN 852936-45-9 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-N-(pyrazinylmethyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

RN 852936-46-0 CAPLUS

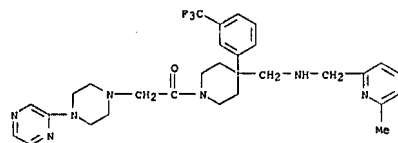
CN 4-Piperidinemethanamine, N-[(6-methyl-2-pyridinyl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



&lt;12/04/2007&gt;

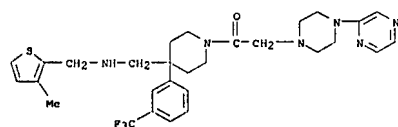
Erich Leese

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RN 852936-47-1 CAPLUS

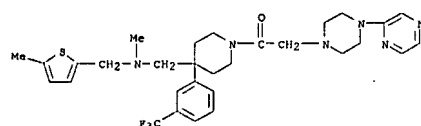
CN 4-Piperidinemethanamine, N-[(3-methyl-2-thienyl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

RN 852936-48-2 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-N-[(5-methyl-2-thienyl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 852936-49-3 CAPLUS

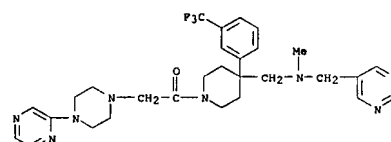
CN 4-Piperidinemethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-N-

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Erich Leese

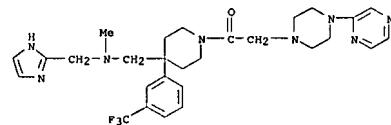
10/513699

(5-pyrimidinylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



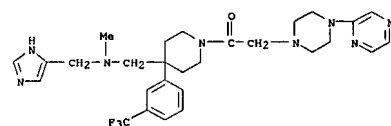
RN 852936-50-6 CAPLUS

CN 4-Piperidinemethanamine, N-(1H-imidazol-2-ylmethyl)-N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852936-51-7 CAPLUS

CN 4-Piperidinemethanamine, N-(1H-imidazol-4-ylmethyl)-N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, tetrahydrochloride (9CI) (CA INDEX NAME)



● 4 HCl

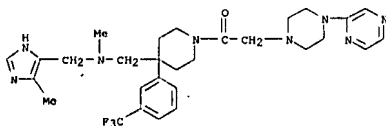
RN 852936-52-8 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-N-[(5-methyl-1H-imidazol-4-yl)methyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI)

&lt;12/04/2007&gt;

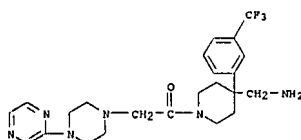
Erich Leese

(CA INDEX NAME)



IT 634461-23-7P, 1-[4-(Aminomethyl)-4-(3-(trifluoromethyl)phenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634464-08-7P, 1-[4-[(Methylamino)methyl]-4-(3-(trifluoromethyl)phenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634469-57-1P, tert-Butyl [(1-[2-(4-(2-pyrazinyl)-1-piperazinyl)ethanoyl]-4-(3-(trifluoromethyl)phenyl)-4-piperidinyl)methyl]carbamate 852936-54-0P, tert-Butyl [(1-[2-(4-(2-pyrazinyl)-1-piperazinyl)acetyl]-4-(3-(trifluoromethyl)phenyl)-4-piperidinyl)methyl]carbamate  
 RU: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate, preparation of 4-[(arylmethyl)aminomethyl]piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

RN 634461-23-7 CAPLUS  
 CN 4-Piperidinmethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-08-7 CAPLUS  
 CN 4-Piperidinmethanamine, N-methyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

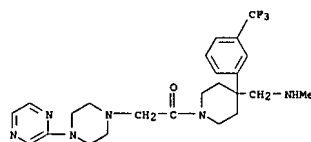
Erich Leese

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.  
 SOURCE: Fr. Demande, 49 pp.  
 CODEN: PRXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

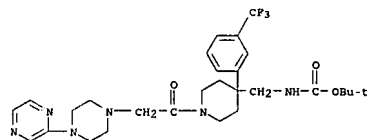
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2862967	A1	20050603	FR 2003-14173	20031201
FR 2862967	B1	20060804		
WO 2005054227	A1	20050616	WO 2004-FR3067	20041130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BM, BY, BZ, CA, CH, CN, CO, CR, CU, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BM, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KO, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 1699778 A1 20060913 EP 2004-805591 20041130 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS JP 2007512385 T 20070517 JP 2006-541975 20041130 US 2007021609 A1 20070125 US 2006-420508 20060526 PRIORITY APPL. INFO.: FR 2003-14173 A 20031201 WO 2004-FR3067 W 20041130 OTHER SOURCE(S): MARPAT 143:26635 GI				

&lt;12/04/2007&gt;

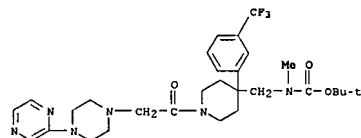
Erich Leese



RN 634469-57-1 CAPLUS  
 CN Carbanic acid, [(1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl)methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 852936-54-0 CAPLUS  
 CN Carbanic acid, methyl[(1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl)methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

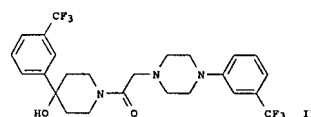
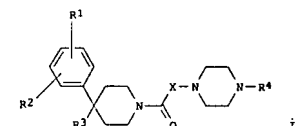


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:470968 CAPLUS  
 DOCUMENT NUMBER: 143:26635  
 TITLE: Preparation of (4-Phenylpiperazin-1-yl)acetyl piperidine derivatives as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases  
 INVENTOR(S): Dos Santos, Victor; Wagnon, Jean

&lt;12/04/2007&gt;

Erich Leese



AB Title compds. I (wherein n = 1-2; R1 = halo, CF3, alkyl, alkoxy, OCF3; R2 = H, halo, R3 = H, OH and derivs., NH2 and derivs., etc.; R4 = (un)substituted Ph; their free bases, or acid addition salts, and their hydrates or solvates) were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve growth factor) for treating p75NTR related diseases (no data). For example, IT=HCl was prepared by reacting 2-chloro-1-[4-hydroxy-4-[3-(trifluoromethyl)phenyl]-3-piperidinyl]-1-ethanone (preparation given) with 1-[3-(trifluoromethyl)phenyl]piperazine in the presence of K2CO3/MeCN. I inhibited the binding of 125I NGF to p75NTR receptor with IC50 in the range of 10-11 M to 10-6 M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC50 in the range of 10-11 M to 10-6 M at the cellular level.

IT 852937-09-9P, 4-[3-(Trifluoromethyl)phenyl]-1-[4-[3-(trifluoromethyl)phenyl]piperazin-1-yl]acetyl]piperidin-4-ol  
 852937-01-0P, 1-[4-(3,4-Dimethylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-ol 852937-02-1P, 1-[4-(3,5-Dichlorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-ol 852937-03-2P, 1-[4-(4-Methylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-ol 852937-04-3P, [(1-[(4-Phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine trihydrochloride 852937-05-4P, (2-Purylmethyl) [(1-[(4-phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine 852937-06-5P, [(1-[(4-Phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl] [(2-thienyl)methyl]amine 852937-09-8P 852937-11-2P, [(1-[(4-Phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl] [(piperidin-3-yl)methyl]amine dioxalate 852937-13-4P 852937-14-5P  
 N-Methyl-1-[1-[(4-phenylpiperazin-1-yl)acetyl]-4-[3-

&lt;12/04/2007&gt;

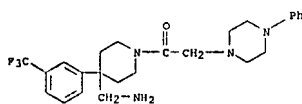
Erich Leese

(trifluoromethyl)phenyl)piperidin-4-yl)methanamine dihydrochloride  
 852937-15-6P, N,N-Dimethyl-1-[[4-(4-phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methanamine 852937-16-7P, N-Methyl-N-[[1-[[4-(4-phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]ethanamine dihydrochloride  
 852937-17-8P, 1-[[4-(4-Fluorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine trihydrochloride  
 852937-18-9P, 1-[[4-(3-Methoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine dihydrochloride  
 852937-19-0P, 1-[[4-(3,4-Dichlorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-20-3P, 1-[[4-(2,4-Dimethylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine trihydrochloride  
 852937-21-4P, 1-[[4-(2,4-Dimethylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine dihydrochloride  
 852937-22-5P, 1-[[4-(3,4-Dimethoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine trihydrochloride  
 852937-23-6P, 1-[[4-(3,4-Dimethoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine trihydrochloride  
 852937-24-7P, N-Ethyl-N-[[1-[[4-(3-Methoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]ethanamine dihydrochloride  
 852937-25-8P, 1-[[2-(4-(Acetidin-1-ylcarbonyl)-4-[3-(trifluoromethyl)phenyl]piperidin-1-yl)-2-oxoethyl]-4-phenyl]piperazine 852937-26-9P, 1-[[4-(3,4-Dimethoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-27-0P, 1-[[4-(4-Chlorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-28-1P, 1-[[4-(3-Chlorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-29-2P, 1-[[4-(4-Methoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-30-5P, 1-[[4-(3-Methoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-31-6P, 1-[[4-(4-Phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidine-4-carboxamide 852937-32-7P, 1-[[4-(2,4-Dimethylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidine-4-carboxamide  
 852937-33-8P, 1-[[4-(2,4-Dimethoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidine-4-carboxamide  
 852937-34-9P, 1-[[4-(2,4-Dichlorophenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidine-4-carboxamide  
 852937-35-0P, 1-[[3-(4-Phenylpiperazin-1-yl)propanoyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-36-1P, 1-[[3-(4-(4-Methylphenyl)piperazin-1-yl)propanoyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-37-2P, 1-[[3-(4-(4-Fluorophenyl)piperazin-1-yl)propanoyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-38-3P, 1-[[3-(4-(4-Methoxyphenyl)piperazin-1-yl)propanoyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-39-4P, 1-[[1-[[4-(3,4-Dimethoxyphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]((2-furyl)methyl)methylamine  
 852937-40-7P, 9-(3-Pyridylmethyl)-1-[[4-(4-phenylpiperazin-1-yl)acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methylamine  
 852937-41-8P, 1-[[1-[[4-(2,3-Dimethylphenyl)piperazin-1-yl]acetyl]-4-[3-(trifluoromethyl)phenyl]piperidin-4-yl)methyl]amine  
 852937-46-3P 852937-47-4P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

&lt;12/04/2007&gt;

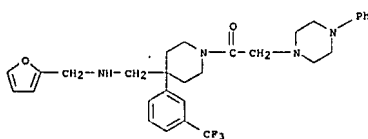
Erich Leese

RN 852937-04-3 CAPLUS  
 CN 4-Piperidinemethanamine, 1-[[4-(4-phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

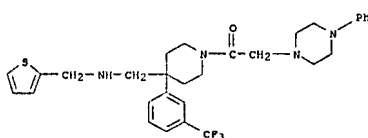


● 3 HCl

RN 852937-05-4 CAPLUS  
 CN 4-Piperidinemethanamine, N-(2-furanylmethyl)-1-[[4-(4-phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-06-5 CAPLUS  
 CN 4-Piperidinemethanamine, 1-[[4-(4-phenyl-1-piperazinyl)acetyl]-N-(2-thienylmethyl)-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-09-8 CAPLUS  
 CN 4-Piperidinemethanamine, 1-[[4-(4-phenyl-1-piperazinyl)acetyl]-N-(2-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

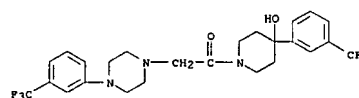
CM 1

&lt;12/04/2007&gt;

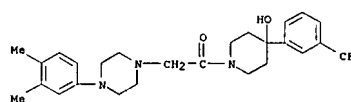
Erich Leese

(drug candidate; preparation of phenylpiperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

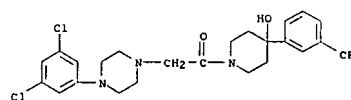
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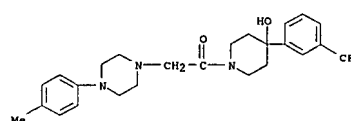
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 CN 4-Piperidinol, 1-[[4-(3,4-dimethylphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-02-1 CAPLUS  
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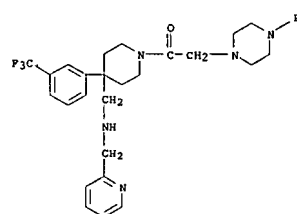
RN 852937-03-2 CAPLUS  
 CN 4-Piperidinol, 1-[[4-(4-methylphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



&lt;12/04/2007&gt;

Erich Leese

CRN 852937-08-7  
 CMP C31 H36 F3 N5 O



CM 2

CRN 144-62-7  
 CMP C2 H2 O4



RN 852937-11-2 CAPLUS  
 CN 4-Piperidinemethanamine, 1-[[4-(4-phenyl-1-piperazinyl)acetyl]-N-(3-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

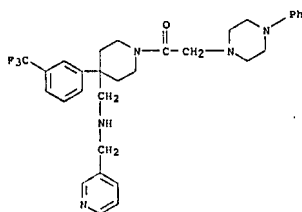
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CRN 852937-10-1  
 CMP C31 H36 F3 N5 O

&lt;12/04/2007&gt;

Erich Leese

10/513699

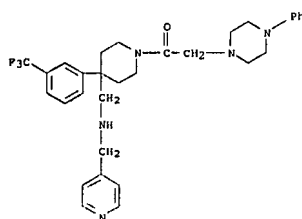


CM 2

CRN 144-62-7  
CMP C2 H2 O4

RN 852937-13-4 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-phenyl-1-piperazinyl]acetyl]-N-(4-pyridinylmethyl)-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

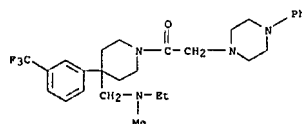
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CRN 852937-12-3  
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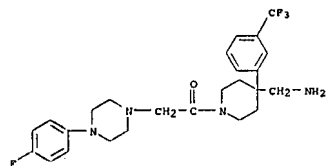
Erich Leese

10/513699



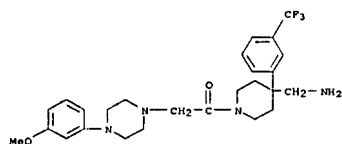
● 2 HCl

RN 852937-17-8 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-(4-fluorophenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

RN 852937-18-9 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-(3-methoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

&lt;12/04/2007&gt;

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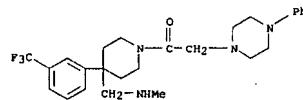
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CM 2

CRN 144-62-7  
CMP C2 H2 O4

RN 852937-14-5 CAPLUS

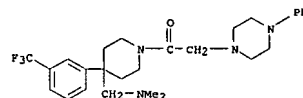
CN 4-Piperidinemethanamine, N-methyl-1-[[4-phenyl-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 852937-15-6 CAPLUS

CN 4-Piperidinemethanamine, N,N-dimethyl-1-[[4-phenyl-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-16-7 CAPLUS

CN 4-Piperidinemethanamine, N-ethyl-N-methyl-1-[[4-phenyl-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

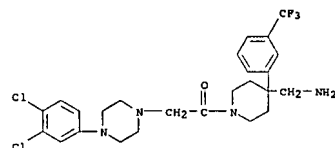
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Erich Leese

10/513699

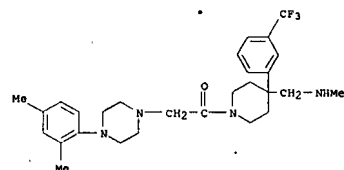
RN 852937-19-0 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(3,4-dichlorophenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-20-3 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(2,4-dimethylphenyl)-1-piperazinyl]acetyl]-N-methyl-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



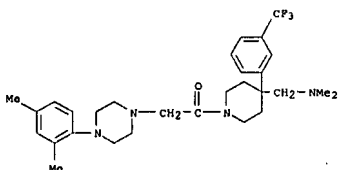
● 2 HCl

RN 852937-21-4 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(2,4-dimethylphenyl)-1-piperazinyl]acetyl]-N,N-dimethyl-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

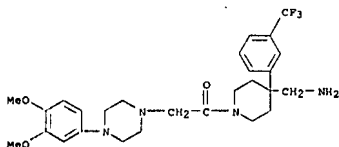
&lt;12/04/2007&gt;

Erich Leese



● 2 HCl

RN 852937-22-5 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-[(3,4-dimethoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

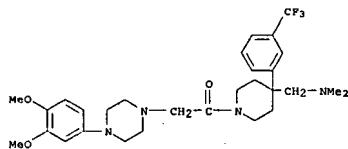


● 3 HCl

RN 852937-23-6 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-[(3,4-dimethoxyphenyl)-1-piperazinyl]acetyl]-N,N-dimethyl-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

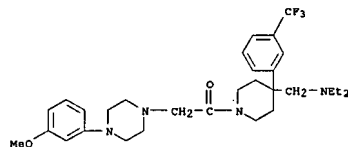
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Erich Leese



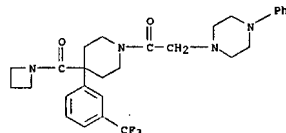
● 3 HCl

RN 852937-24-7 CAPLUS  
CN 4-Piperidinemethanamine, N,N-diethyl-1-[[4-[(3-methoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 852937-25-8 CAPLUS  
CN Piperidine, 4-(1-azetidinyldicarbonyl)-1-[2-(4-phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

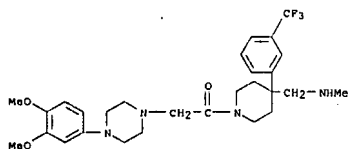


RN 852937-26-9 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-[(3,4-dimethoxyphenyl)-1-piperazinyl]acetyl]-

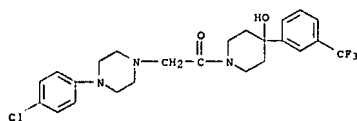
&lt;12/04/2007&gt;

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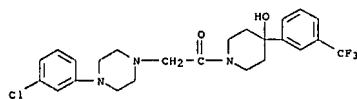
N-methyl-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-27-0 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(4-chlorophenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



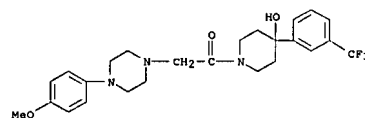
RN 852937-28-1 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(3-chlorophenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



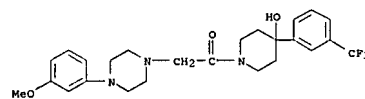
RN 852937-29-2 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(4-methoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

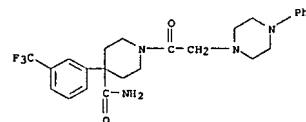
Erich Leese



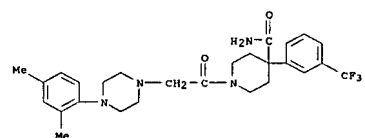
RN 852937-30-5 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(3-methoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-31-6 CAPLUS  
CN 4-Piperidinecarboxamide, 1-[[4-[(4-phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-32-7 CAPLUS  
CN 4-Piperidinecarboxamide, 1-[[4-[(2,4-dimethylphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



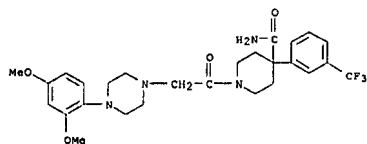
&lt;12/04/2007&gt;

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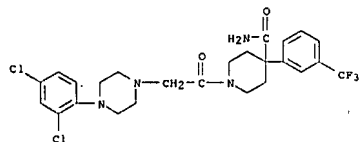
RN 852937-33-8 CAPLUS

CN 4-Piperidinecarboxamide, 1-[[4-(2,4-dimethoxyphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



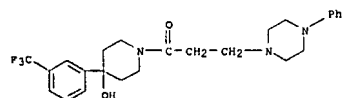
RN 852937-34-9 CAPLUS

CN 4-Piperidinecarboxamide, 1-[[4-(2,4-dichlorophenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-35-0 CAPLUS

CN 4-Piperidinol, 1-[1-oxo-3-(4-phenyl-1-piperazinyl)propyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



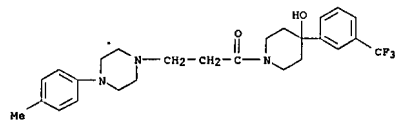
RN 852937-36-1 CAPLUS

CN 4-Piperidinol, 1-[3-[[4-(4-methylphenyl)-1-piperazinyl]-1-oxopropyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

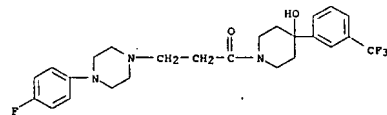
Erich Leese

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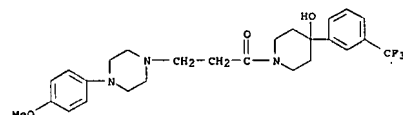
RN 852937-37-2 CAPLUS

CN 4-Piperidinol, 1-[3-[[4-(4-fluorophenyl)-1-piperazinyl]-1-oxopropyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-38-3 CAPLUS

CN 4-Piperidinol, 1-[3-[[4-(4-methoxyphenyl)-1-piperazinyl]-1-oxopropyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



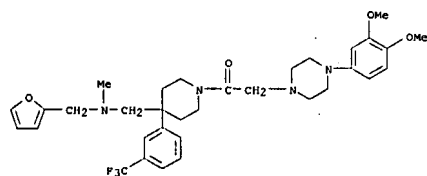
RN 852937-39-4 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(3,4-dimethoxyphenyl)-1-piperazinyl]acetyl]-N-(2-furanylmethyl)-N-methyl-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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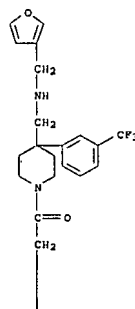
10/513699



RN 852937-40-7 CAPLUS

CN 4-Piperidinemethanamine, N-(3-furanylmethyl)-1-[[4-(phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



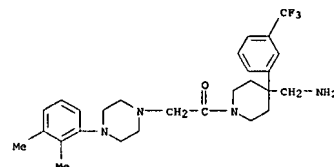
&lt;12/04/2007&gt;

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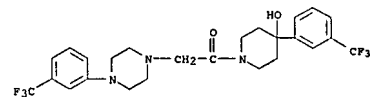
RN 852937-41-8 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(2,3-dimethylphenyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 852937-46-3 CAPLUS

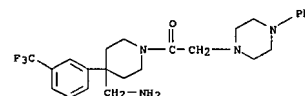
CN 4-Piperidinol, 4-[3-(trifluoromethyl)phenyl]-1-[[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 852937-47-4 CAPLUS

CN 4-Piperidinemethanamine, 1-[[4-(phenyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 852937-48-5P, tert-Butyl [[1-[2-(4-phenylpiperazin-1-yl)ethanoyl]-

&lt;12/04/2007&gt;

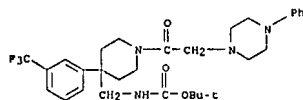
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4-[(3-(trifluoromethyl)phenyl)piperidin-4-yl]methyl]carbamate  
 852937-49-6P, tert-Butyl methyl[(1-(2-(4-phenylpiperazin-1-yl)ethanoyl)-4-[(3-(trifluoromethyl)phenyl)piperidin-4-yl]methyl]carbamate  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of phenylpiperazinylacetyl piperidines as NOP binding inhibitors to p75NTR receptor and of the apoptosis induced by NOP)

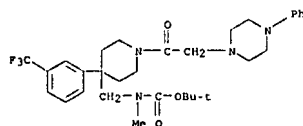
RN 852937-49-5 CAPLUS

CN Carbamic acid, [(1-[(4-phenyl-1-piperazinyl)acetyl]-4-[(3-(trifluoromethyl)phenyl)-4-piperidinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 852937-49-6 CAPLUS

CN Carbamic acid, methyl[(1-[(4-phenyl-1-piperazinyl)acetyl]-4-[(3-(trifluoromethyl)phenyl)-4-piperidinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:857166 CAPLUS

DOCUMENT NUMBER: 141:332218

TITLE: Preparation of diazoheterocycles as calcitonin gene related peptide receptor antagonists  
 INVENTOR(S): Chaturvedi, Prasad V.; Chen, Ling; Civiello, Rita; Conway, Charles Mark; Degnan, Andrew P.; Dubowchik, Gene M.; Han, Xiaojun; Jiang, Xiang Jun; Karageorge, George N.; Luo, Guanglin; Macor, John E.; Poindexter, Graham; Tora, George; Vig, Shikha  
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 203 pp., Cont.-in-part of U.S. Ser. No. 445,523.  
 CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

&lt;12/04/2007&gt;

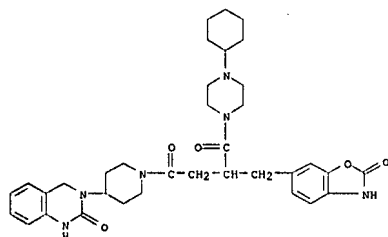
Erich Leese

10/513699

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of diazoheterocycles as calcitonin gene related peptide receptor antagonists)

RN 773886-69-4 CAPLUS

CN Piperazine, 1-cyclohexyl-4-[2-[(2,3-dihydro-2-oxo-6-benzoxazolyl)methyl]-4-[4-(1,2-dihydro-2-oxo-3(4H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:587914 CAPLUS

DOCUMENT NUMBER: 141:140319

TITLE: Preparation of amino acid dipiperidides as GPR antagonists  
 INVENTOR(S): Bauer, Eckhart; Gerlach, Kai; Hurnaus, Rudolf; Mueller, Stephan; Rudolf, Klaus; Schindler, Marcus; Stenkamp, Dirk  
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma GmbH & Co. KG, Germany  
 SOURCE: Ger. Offen., 98 pp.  
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10300973	A1	20040722	DE 2003-10300973	20030114
AU 2004203916	A1	20040729	AU 2004-203916	20040109
CA 2511139	A1	20040729	CA 2004-2511132	20040109
WO 2004063171	A1	20040729	WO 2004-EP87	20040109

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,

&lt;12/04/2007&gt;

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10/513699

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004204397	A1	20041014	US 2003-729155	20031205
US 7220862	B2	20070522		
US 2004063735	A1	20040401	US 2003-445523	20030527
ZA 2004009654	A	20060726	ZA 2004-9654	20041129
US 2007148093	A1	20070628	US 2006-641974	20061219
US 2007149502	A1	20070628	US 2007-620353	20070105
US 2007149503	A1	20070628	US 2007-620308	20070105

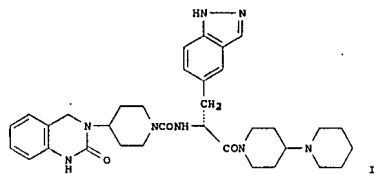
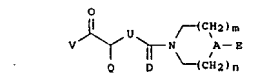
PRIORITY APPLN. INFO.:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002-386138P	P	20020605		
US 2002-386617P	P	20020613		
US 2002-389870P	P	20020619		
US 2002-393200P	P	20020701		
US 2002-413534P	P	20020925		
US 2003-445523	A2	20030527		
US 2003-729155	A3	20031205		

OTHER SOURCE(S):

MARPAT 141:332218

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AB Diazaheterocycles I [m, n = 0-2; V = (un)substituted NH<sub>2</sub>, OH, O = (un)substituted alkyl, NH<sub>2</sub>, NHC(=O)R, NHC(=O)R', U = CH<sub>2</sub>, NH; D = O, NCN, alkylsulfonylimino; A = C, N, CH; E = (un)substituted heterocyclic; with proviso] were prepared for use as antagonists of calcitonin gene-related peptide receptors for treatment of neurogenic vasodilation, neurogenic inflammation, migraine and other headaches, thermal injury, circulatory shock, flushing associated with menopause, airway inflammatory diseases, such as asthma and chronic obstructive pulmonary disease (COPD). Thus, the indazole II was prepared from 1H-indazole-5-carboxaldehyde and had IC<sub>50</sub> for calcitonin gene related peptide receptor binding of ≤ 10 nM. The pharmaceutical composition comprising the compound I is claimed.  
 IT 773886-69-4P

&lt;12/04/2007&gt;

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10/513699

GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NP, NR, NZ, OM, PA, PE, PG, PH, PI, PK, PL, PT, QA, RO, RU, RW, SA, SG, SI, SK, SL, SM, SN, SR, ST, SV, SZ, TD, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VE, VG, VI, VN, YU, ZA, ZM, ZW.  
 EP 1587795 A1 20051026 EP 2004-700987 20040109  
 R: AT, BR, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 BR 2004006762 A 20051220 BR 2004-6762 20040109  
 CN 1738805 A 20060222 CN 2004-80002209 20040109  
 JP 2006515875 T 20060608 JP 2006-500537 20040109  
 US 2004192729 A1 20040930 US 2004-755593 20040112  
 MX 2005PA06214 A 20050919 MX 2005-PA06214 20050610  
 IN 2005DN03075 A 20070302 IN 2005-DN03075 20050711  
 NO 2005003794 A 20050810 NO 2005-3794 20050810  
 WO 2000-EP7613 W 20000805  
 DE 2003-10300973 A 20030114  
 US 2003-443492P P 20030129  
 WO 2004-EP87 W 20040109

PRIORITY APPLN. INFO.:

MARPAT 141:140319

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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [R = (un)substituted diaza-, triaza-, 8,8-dioxodithiadiazaheterocycle; Ar = (un)substituted aryl, heteroaryl; Y = CH<sub>2</sub>, NH; Y1 = (un)substituted CH, N; R1 = (un)substituted N heterocycle; R2, R3 = H, carboxylic ester] were prepared for use as GPR antagonists in the production and purification of antibodies and as marked compds. in RIA and ELISA assays and as diagnostic or analytic additives in neurotransmitter research (no data). Thus, the piperidine II was prepared from the amino acid and piperidine fragments in a multi-step synthesis.

IT 726184-27-6P 726184-36-7P 726184-38-9P  
 726184-39-0P 726184-41-4P 726184-42-5P  
 726184-44-7P 726184-45-8P 726184-46-9P  
 726184-47-0P 726184-49-2P 726184-51-6P  
 726184-52-7P 726184-53-8P 726184-54-9P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

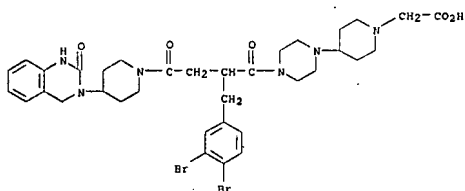
(preparation of amino acid dipiperidides as GPR antagonists)

RN 726184-27-6 CAPLUS

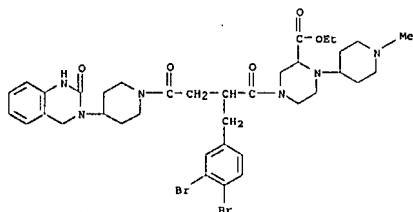
CN 1-Piperidineacetic acid, 4-[4-[(2-(3,4-dibromophenyl)methyl)-4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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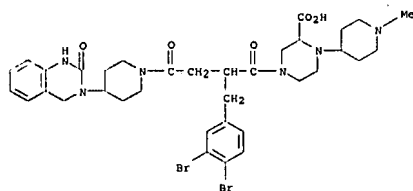
RN 726184-36-7 CAPLUS  
CN 2-Piperazinecarboxylic acid, 4-[2-[(3,4-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



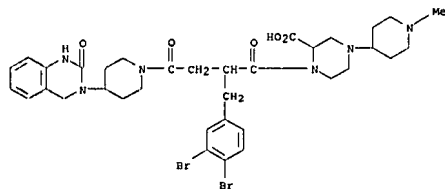
RN 726184-38-9 CAPLUS  
CN 2-Piperazinecarboxylic acid, 4-[2-[(3,5-dibromo-4-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

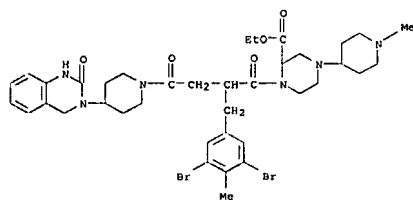
Erich Leese



RN 726184-42-5 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[(3,4-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

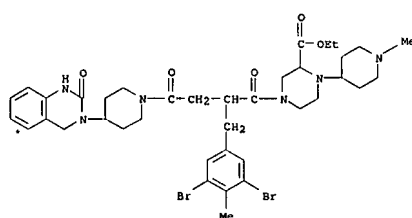


RN 726184-44-7 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[(3,5-dibromo-4-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

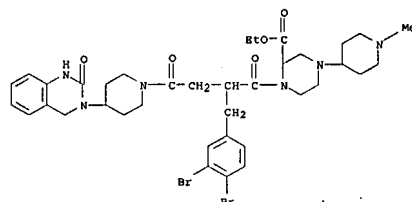


&lt;12/04/2007&gt;

Erich Leese



RN 726184-39-0 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[(3,4-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

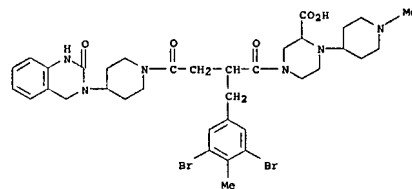


RN 726184-41-4 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[(3,4-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

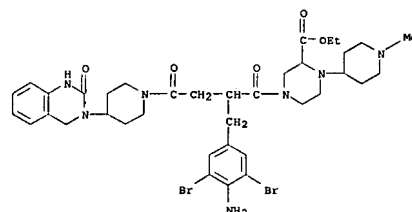
&lt;12/04/2007&gt;

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RN 726184-45-8 CAPLUS  
CN 2-Piperazinecarboxylic acid, 4-[2-[(3,5-dibromo-4-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 726184-46-9 CAPLUS  
CN 2-Piperazinecarboxylic acid, 4-[2-[(4-amino-3,5-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



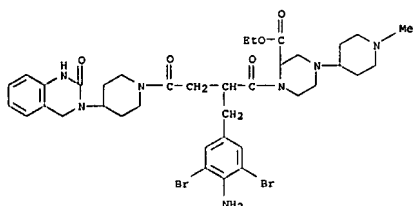
RN 726184-47-0 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[(4-amino-3,5-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

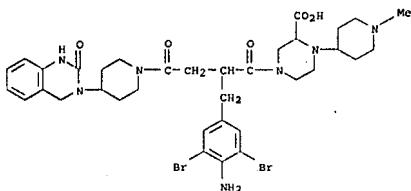
Erich Leese



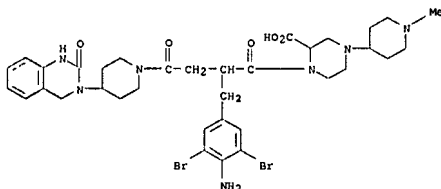
10/513699



RN 726184-49-2 CAPLUS  
CN 2-Piperazinecarboxylic acid, 4-[2-[(4-amino-3,5-dibromophenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)- (9C1) (CA INDEX NAME)



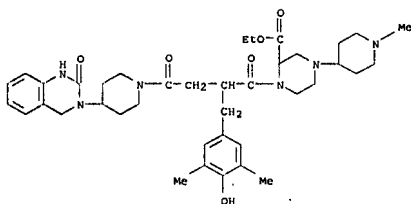
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&lt;12/04/2007&gt;

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L12 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:370923 CAPLUS

DOCUMENT NUMBER: 140:391302

TITLE: Preparation of benzo-1,3-diazepin-2-ones and related compounds as GPCR receptor antagonists for the treatment of migraine headaches

INVENTOR(S): Rudolf, Klaus; Mueller, Stephan Georg; Stenkamp, Dirk; Lustenberger, Philipp; Dreyer, Alexander; Bauer, Eckhart; Schindler, Marcus; Arndt, Kirsten; Doods, Henri

PCT Int. Appl., 254 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037811	A1	20040506	WO 2003-EP11763	20031023
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GR, OM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: OH, GM, KE, LB, MM, MZ, SD, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TH, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10250082	A1	20040513	DE 2002-10250082	20021025
US 2004112716	A1	20040708	US 2003-685921	20031015
CA 2503462	A1	20040506	CA 2003-2503462	20031023
AU 2003276157	A1	20040513	AU 2003-276157	20031023
EP 1558601	A1	20050803	EP 2003-809318	20031023
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003015642	A	20050830	BR 2003-15642	20031023
CN 1708492	A	20051214	CN 2003-80101980	20031023
JP 2006050573	T	20060216	JP 2004-545964	20031023

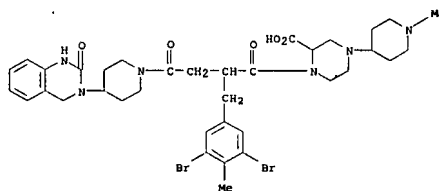
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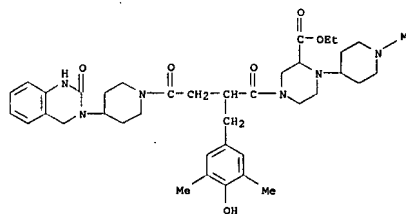
RN 726184-52-7 CAPLUS

CN 2-Piperazinecarboxylic acid, 1-[2-[(3,5-dibromo-4-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9C1) (CA INDEX NAME)



RN 726184-53-8 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9C1) (CA INDEX NAME)



RN 726184-54-9 CAPLUS

CN 2-Piperazinecarboxylic acid, 1-[4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-2-[(4-hydroxy-3,5-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)-, ethyl ester (9C1) (CA INDEX NAME)

&lt;12/04/2007&gt;

Erich Leese

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NZ 540006	A	20070531	NZ 2003-540006	20031023
ZA 2005002247	A	20050919	ZA 2005-2247	20050117
MX 2005PA04188	A	20051005	MX 2005-PA4188	20050420
IN 2005DN01641	A	20070119	IN 2005-DN1641	20050421
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PRIORITY APPLN. INFO.:			DE 2002-10250082	A 20021025
			US 2002-426167P	P 20021114
			WO 2003-EP11763	W 20031023
OTHER SOURCE(S):			DE 2004-102004015723A	20040329
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = O, S, phenylsulfonylimino, etc.; X = O, S, substituted imino, etc.; Y, Z = alkyl, difluoromethyl, trifluoromethyl, etc.; R1 = 5-7 membered aza, diaza, triaza, etc. heterocycle; R2 = H, phenylmethyl, alkyl, etc.; R3 = H, Ph, pyridinyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared. For example, benzo-1,3-diazepin-2-one II was prepared from 1-(3,4-diethylphenyl)ethanone in 8-steps. In human GPCR receptor binding affinity assays, compds. I exhibited IC50 values < 10000 nM. Compds. I are claimed useful for the treatment of migraine headaches.

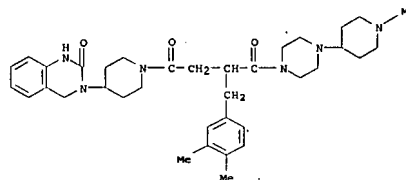
IT 686297-30-3P 686297-39-2P 686297-59-6P 686297-60-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzo-1,3-diazepin-2-ones and related compds. as GPCR receptor antagonists for the treatment of migraine headaches)

RN 686297-30-3 CAPLUS

CN Piperazine, 1-[2-[(3,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-2-[(3,4-dimethylphenyl)methyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9C1) (CA INDEX NAME)



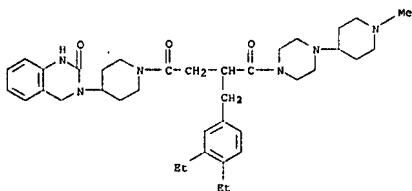
RN 686297-39-2 CAPLUS

CN Piperazine, 1-[2-[(3,4-diethylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9C1) (CA INDEX NAME)

&lt;12/04/2007&gt;

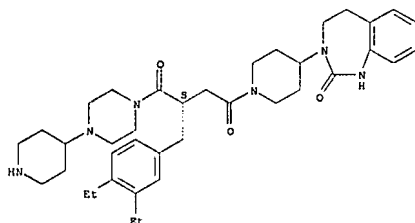
Erich Leese

(9CI) (CA INDEX NAME)



RN 686297-59-6 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3,4-diethylphenyl)methyl]-1,4-dioxo-4-[(4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl)butyl]-4-(4-piperidinyl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 686297-60-9 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(3,4-diethylphenyl)methyl]-1,4-dioxo-4-[(4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl)butyl]-4-(1-methyl-4-piperidinyl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

&lt;12/04/2007&gt;

Erich Leese

R: AT, BR, CH, DE, DK, ES, FR, GB, GR, IT, LI, LV, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 BR 2003015665 A 20050830 BR 2003-15665 20031023  
 CN 1708493 A 20051214 CN 2003-80102004 20031023  
 JP 200616244 T 20060629 JP 2004-545663 20031023  
 IN 2005DN01640 A 20070323 IN 2005-DN1640 20050421  
 MX 2005PA04375 A 20050705 MX 2005-PA4375 20050425  
 NO 200502496 A 20050624 NO 2005-2496 20050524  
 PRIORITY APPL. INPO.: DE 2002-10250080 A 20021025  
 US 2002-426168P P 20021114  
 WO 2003-EP11762 W 20031023  
 OTHER SOURCE(S): MARPAT 140:391301  
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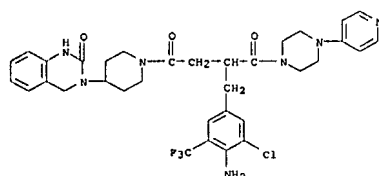
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = O, S, phenylsulfonylimino, etc.; X = O, S, substituted imino, etc.; U = alkyl, alkenyl, alkynyl, etc.; V = Cl, Br, amino, etc.; W = H, halo, difluoromethyl, etc.; R1 = 5-7 membered aza, diaza, triaza, etc. heterocycle; R2 = H, phenylmethyl, alkyl, etc.; R3 = H, Ph, pyridinyl, etc.] and their pharmaceutically acceptable salts and formulations were prepared. For example, benzo-1,3-diazepin-2-one II was prepared from 4-amino-3-chloro-5-trifluoromethylbenzoic acid in 9-steps. In human CGRP receptor binding affinity assays, compds. I exhibited IC50 values < 10000 nM. Compds. I are claimed useful for the treatment of migraine headaches.

IT 688018-15-7P 688018-35-1P 688018-39-5P  
 688018-63-5P 688018-65-7P 688018-98-6P  
 688019-15-0P 688019-23-0P 688019-24-1P  
 688019-47-8P 688019-64-9P 688019-67-2P  
 688019-70-7P 688019-76-3P 688019-79-6P  
 688019-86-5P 688019-88-7P 688044-92-0P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

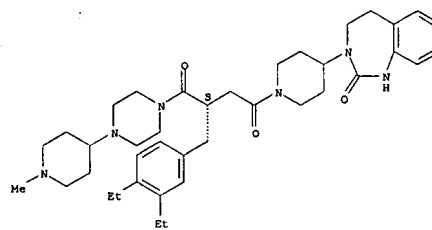
(preparation of benzo-1,3-diazepin-2-ones and related compds. as CGRP receptor antagonists for the treatment of migraine headaches)

RN 688018-15-7 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(4-pyridinyl)]- (9CI) (CA INDEX NAME)



&lt;12/04/2007&gt;

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REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2004:370922 CAPLUS  
 DOCUMENT NUMBER: 140:391301  
 TITLE: Preparation of benzo-1,3-diazepin-2-ones and related compounds as CGRP receptor antagonists for the treatment of migraine headaches  
 INVENTOR(S): Rudolf, Klaus; Mueller, Stephan Georg; Stenkamp, Dirk; Lustenberger, Philipp; Dreyer, Alexander; Bauer, Eckhart; Schindler, Marcus; Kirsten, Arndt; Doods, Henri  
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany  
 SOURCE: PCT Int. Appl., 315 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

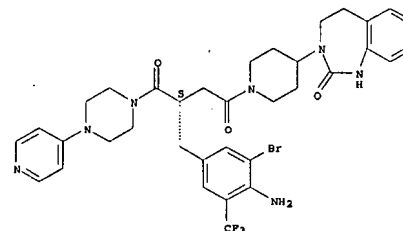
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2004037810	A1	20040506	NO 2003-EP11762	20031023
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RN: GH, GM, KE, LG, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TO				
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US 2006079504	A1	20060413	US 2003-687262	20031016
CA 2503455	A1	20040506	CA 2003-2503455	20031023
AU 2003276156	A1	20040513	AU 2003-276156	20031023
EP 1558600	A1	20050803	EP 2003-809317	20031023

&lt;12/04/2007&gt;

Erich Leese

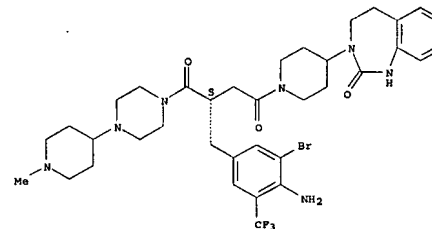
RN 688018-35-1 CAPLUS  
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Absolute stereochemistry.



RN 688018-39-5 CAPLUS  
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Absolute stereochemistry.

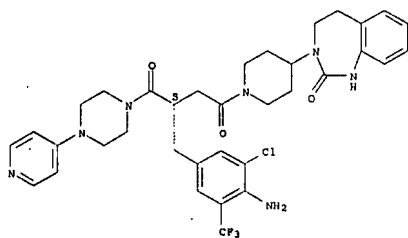


RN 688018-63-5 CAPLUS  
 CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[(4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl)butyl]-4-(4-pyridinyl)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

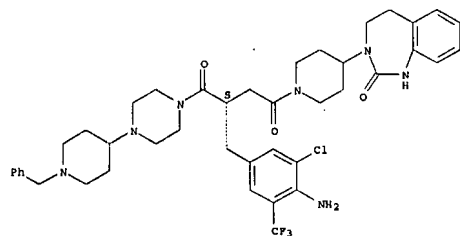
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Erich Leese



RN 688018-65-7 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[4-amino-3-chloro-5-(trifluoromethyl)phenyl]methyl]-1,4-dioxo-4-[4-(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-phenylmethyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

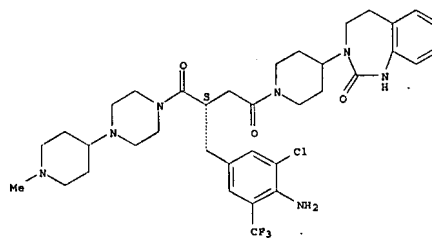


RN 688018-98-6 CAPLUS  
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Absolute stereochemistry.

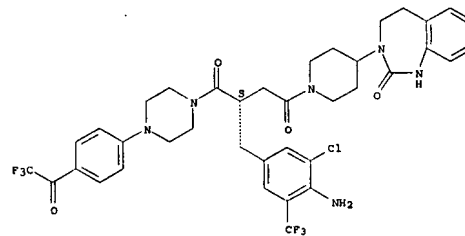
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Erich Leese



RN 688019-15-0 CAPLUS  
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Absolute stereochemistry.

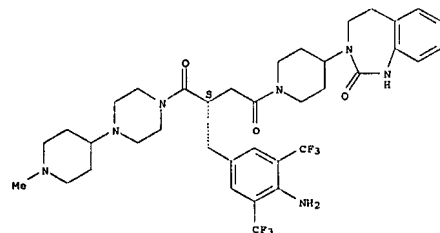


RN 688019-23-0 CAPLUS  
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Absolute stereochemistry.

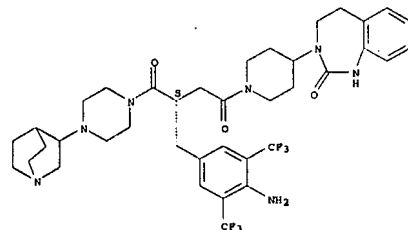
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Erich Leese



RN 688019-24-1 CAPLUS  
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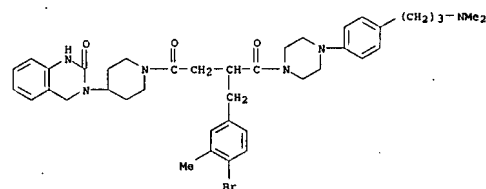
Absolute stereochemistry.



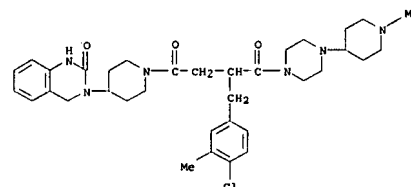
RN 688019-47-8 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[4-amino-3-methylphenyl]methyl]-4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-[4-[3-(dimethylamino)propyl]phenyl]- (9CI) (CA INDEX NAME)

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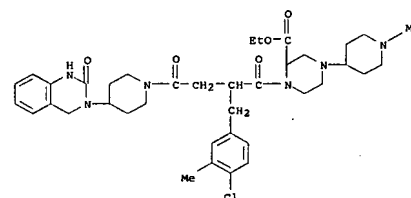
Erich Leese



RN 688019-64-9 CAPLUS  
CN Piperazine, 1-[(2S)-2-[[4-chloro-3-methylphenyl]methyl]-4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 688019-67-2 CAPLUS  
CN 2-Piperazinecarboxylic acid, 1-[2-[[4-chloro-3-methylphenyl]methyl]-4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



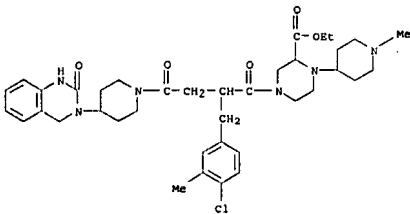
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Erich Leese

10/513699

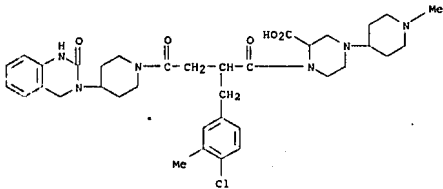
RN 688019-70-7 CAPLUS

CN 2-Piperazinecarboxylic acid, 4-[2-[(4-chloro-3-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-1-(1-methyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 688019-76-3 CAPLUS

CN 2-Piperazinecarboxylic acid, 1-[2-[(4-chloro-3-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 688019-79-6 CAPLUS

CN Piperazine, 1-[2-[(4-chloro-3-methylphenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



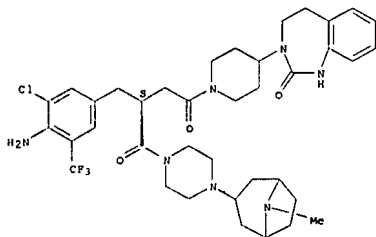
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Erich Leese

10/513699

CN Piperazine, 1-[(2S)-2-[(4-amino-3-chloro-5-(trifluoromethyl)phenyl)methyl]-1,4-dioxo-4-[(1,2,4,5-tetrahydro-2-oxo-3H-1,3-benzodiazepin-3-yl)-1-piperidinyl]butyl]-4-(8-methyl-8-azabicyclo[3.2.1]oct-3-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:182864 CAPLUS

DOCUMENT NUMBER: 140:217651

TITLE: Preparation of piperidinylpyridazinones as inhibitors

of phosphodiesterase PDE4 or PDE3/4 inhibitors.

INVENTOR(S): Hatzelmann, Armin; Barsig, Johannes; Marx, Degenhard;

Kley, Hans-Peter; Christaans, Johannes A. M.; Menge,

Wiro M. P. B.; Sterk, Geert Jan

Altana Pharma A.-G., Germany

PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

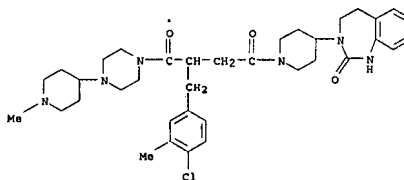
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018451	A1	20040304	WO 2003-EP8677	20030806
WO 2004018451	A8	20040506		
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RW: AM, AZ, BY, KO, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
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AU 2003251693	A1	20040311	AU 2003-251693	20030806
EP 1556369	A1	20050727	EP 2003-792259	20030806

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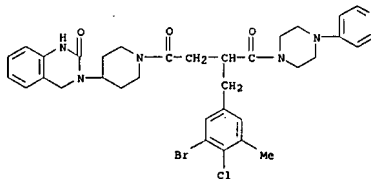
Erich Leese

10/513699



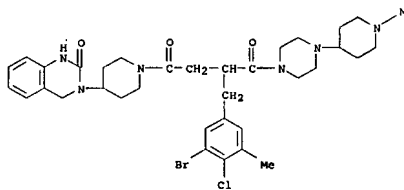
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CN Piperazine, 1-[2-[(3-bromo-4-chloro-5-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 688019-88-7 CAPLUS

CN Piperazine, 1-[2-[(3-bromo-4-chloro-5-methylphenyl)methyl]-4-[(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



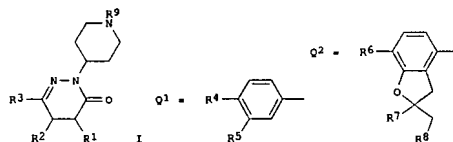
RN 688044-92-0 CAPLUS

&lt;12/04/2007&gt;

Erich Leese

10/513699

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 JP 200538138 T 20051215 JP 2004-530088 20030806  
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 PRIORITY APPLN. INFO.: EP 2002-17976 A 20020610  
 MARPAT 140:217651  
 OTHER SOURCE(S):  
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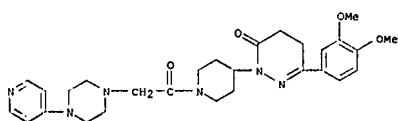
AB Title compds. [I; R1, R2 = H, alkyl; R3 = Q1, Q2; R4 = (fluoro)alkoxy; R5, R6 = cycloalkoxy, cycloalkylmethoxy, (fluoro)alkoxy; R7 = alkyl; R8 = H, alkyl; R7R8 = atoms to form a 5-7 membered ring optionally interrupted by O, S; R9 = alkyl, SO2R10, COR13, aryl, etc.; R10 = alkyl; 5-dimethylaminonaphthalen-1-yl, thienyl, NR16R17, (substituted) Ph, etc.; R13 = alkyl, carboxyalkyl, Ph, pyridyl, NR16R17, etc.; R16 = H, alkyl, cycloalkyl, cycloalkylmethyl, (substituted) Ph; R17 = alkyl, cycloalkyl, cycloalkylmethyl, (substituted) Ph; NR16R17 = 4-morpholinyl, 1-pyrrolidinyl, 1-piperidinyl, 1-hexahydroazepinyl, (substituted) piperazinyl, were prepared. Thus, piperidin-4-ylhydrazine dihydrochloride (preparation given), 4-(3,4-dimethoxyphenyl)-3-methyl-4-oxobutyric acid, and EE3H were refluxed 18 h in *PrOH* to give 6-(3,4-dimethoxyphenyl)-5-methyl-2-piperidin-4-yl-4,5-dihydro-2H-pyridazin-3-one hydrochloride. I inhibited PDE4 with -log IC50 = 7.17-8.39.

IT 666750-84-1P 666750-85-2P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USBS (Uses)  
 (preparation of piperidinylpyridazinones as phosphodiesterase PDE4 or PDE3/4 inhibitors)

RN 666750-84-1 CAPLUS  
 CN Piperidine, 4-[3-[(3,4-dimethoxyphenyl)-5,6-dihydro-6-oxo-1(4H)-pyridazinyl]-1-[(4-(4-pyridinyl)-1-piperazinyl)acetyl]-, dihydrochloride (9CI) (CA INDEX NAME)

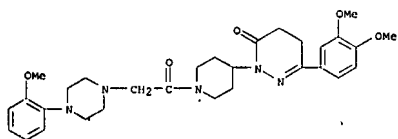
&lt;12/04/2007&gt;

Erich Leese



● 2 HCl

RN 666750-85-2 CAPLUS  
CN Piperidine, 4-[[4-(2-methoxyphenyl)-5,6-dihydro-6-oxo-1(4H)-pyridazinyl]-1-[[4-(2-methoxyphenyl)-1-piperazinyl]acetyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STM  
ACCESSION NUMBER: 2003-991507 CAPLUS

DOCUMENT NUMBER: 140:42206

TITLE: Preparation of piperazinylacetyl piperidines as inhibitors of NGF binding (nerve growth factor) to p75NTR (p75 neurotrophic) receptor for treating p75NTR related diseases

INVENTOR(S): Bono, Francois; Bosch, Michael; Dos Santos, Victor; Herbert, Jean Marc; Nisato, Dino; Tonnerre, Bernard; Wagnon, Jean

PATENT ASSIGNEE(S): Sanofi-Synthelabo, Pr.  
SOURCE: PCT Int. Appl., 56 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

&lt;12/04/2007&gt;

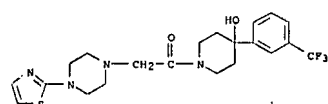
Erich Leese

10/513699

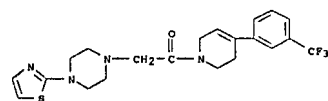
AB Title compds. I [wherein: Y = (CH<sub>2</sub>)<sub>n</sub>; n = 1 or 2; R<sub>1</sub> = halo, CF<sub>3</sub>, alkyl, alkoxy, trifluoromethoxy; R<sub>2</sub> = H, halo; R<sub>3</sub> = H, ORS, CH<sub>2</sub>OR<sub>5</sub>, NH<sub>2</sub> and deriva., NHCONH<sub>2</sub> and deriva., CH<sub>2</sub>NH<sub>2</sub>OR<sub>5</sub>, CH<sub>2</sub>NHCONH<sub>2</sub> and deriva., alkoxy, carbonyl, CONH<sub>2</sub> and deriva., or R<sub>3</sub> forms a double bond between the carbon atom where it is bound to and the neighboring carbon atom of the piperidine cycle; R<sub>4</sub> = 1,3-thiazol-2-yl; R<sub>5</sub> = H, alkyl, alkylcarbonyl; R<sub>6</sub> = alkyl, (CH<sub>2</sub>)<sub>m</sub>NH<sub>2</sub> and deriva.; m = 1, 2, or 3; R<sub>7</sub>, R<sub>8</sub> = independently H, alkyl; R<sub>9</sub> = (CH<sub>2</sub>)<sub>q</sub>OH, (CH<sub>2</sub>)<sub>q</sub>SM<sub>e</sub>; q = 2 or 3; or R<sub>7</sub>R<sub>8</sub>N = aziridine, azetidine, pyrrolidine, piperidine, morpholine; and their salts, hydrates and solvates] were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve growth factor) for treating p75NTR related diseases (no data). For example, I (m.p. = 157-158°) was prepared by reacting 2-chloro-1-[4-hydroxy-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone (preparation given) and 1-[(1,3-thiazol-2-yl)piperazine dihydrochloride (preparation given)] in the presence of K<sub>2</sub>CO<sub>3</sub>/MeCN. I inhibited the binding of 125I NGF to p75NTR receptor with IC<sub>50</sub> in the range of 10-11 M to 10-6 M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC<sub>50</sub> in the range of 10-11 M to 10-6 M at the cellular level.

IT 634613-42-6P, 1-[4-Hydroxy-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone 634613-43-7P 634613-45-9P, 1-[[4-(Aminomethyl)-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone Trihydrochloride  
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(NGF binding inhibitor; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

RN 634613-42-6 CAPLUS  
CN 4-Piperidinol, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-43-7 CAPLUS  
CN Pyridine, 1,2,3,4-tetrahydro-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

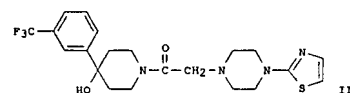
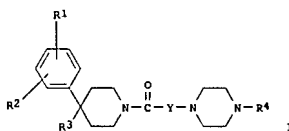


&lt;12/04/2007&gt;

Erich Leese

10/513699

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RM:	GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003255645	A1	20031222	AU 2003-255645	20030605
EP 1513836	A1	20050316	EP 2003-757109	20030605
EP 1513836	B1	20060503		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, TR, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1675203	A	20050928	CN 2003-818808	20030605
JP 2005533051	T	20051104	JP 2004-511296	20030605
AT 325122	T	20060615	AT 2003-757109	20030605
AT 336491	T	20060915	AT 2003-757108	20030605
PT 1513836	T	20060929	PT 2003-757109	20030605
ES 2264001	T3	20061216	ES 2003-3975109	20030605
ZA 200409823	A	20060726	ZA 2004-9823	20041203
US 2006167007	A1	20060727	US 2004-516808	20041203
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OTHER SOURCE(S):		MARPAT 140:42206	WO 2003-FR1686	W 20030605
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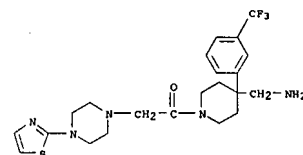


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Erich Leese

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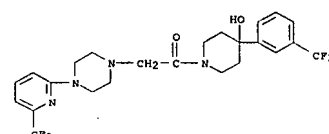
RN 634613-45-9 CAPLUS  
CN 4-Piperidinemethanamine, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

IT 634666-52-7P 634613-37-9P 634613-38-0P  
634613-39-1P 634613-40-4P 634613-41-5P  
634613-44-8P, 2-[[4-[(1,3-Thiazol-2-yl)-1-piperazinyl]-1-[[4-[[3-(trifluoromethyl)phenyl]-3,6-dihydro-1-(2H)-pyridinyl]-1-ethanone dioxalate 634613-47-1P, 1-[[4-[[[Dimethylamino)methyl]-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone 634613-48-2P, 1-[[4-[(Methylamino)methyl]-4-[[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[[4-[(1,3-thiazol-2-yl)-1-piperazinyl]-1-ethanone  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(NGF binding inhibitor; preparation of piperazinylacetyl piperidines as NGF binding inhibitors to p75NTR receptor and of the apoptosis induced by NGF)

RN 634666-52-7 CAPLUS  
CN 4-Piperidinol, 4-[[3-(trifluoromethyl)phenyl]-1-[[4-[[6-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)

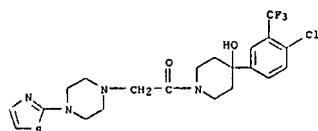


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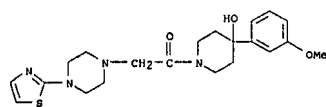
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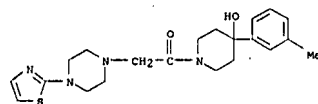
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RN 634613-38-0 CAPLUS  
CN 4-Piperidinol, 4-(3-methoxyphenyl)-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634613-39-1 CAPLUS  
CN 4-Piperidinol, 4-(3-methylphenyl)-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

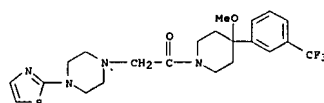


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CN Piperidine, 4-methoxy-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

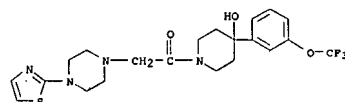
Erich Leese

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● HCl

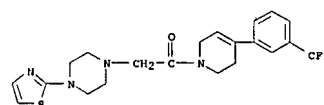
RN 634613-41-5 CAPLUS  
CN 4-Piperidinol, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 634613-44-8 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

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CRN 634613-43-7  
CMP C21 H23 F3 N4 O 8



CM 2

CRN 144-62-7  
CMF C2 H2 O4

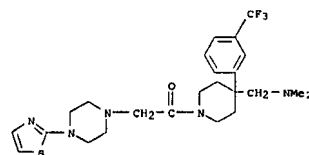


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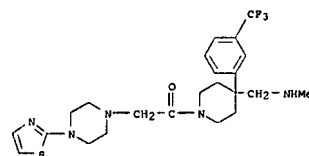
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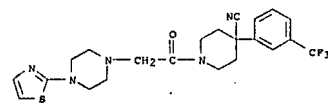
RN 634613-47.1 CAPLUS  
CN 4-piperidinemethanamine, N,N-dimethyl-1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 534613-48-2 CAPLUS  
CN 4-Piperidinemethanamine, N-methyl-1-[(4-(2-thiazolyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT	634613-46-0P, 1-[2-[[4-(1,3-Thiazol-2-yl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methanocarboxylic acid, 634613-46-3P, tert-Butylmethyl 1-[2-[[4-(1,3-Thiazol-2-yl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methylcarbamate
RL	RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
	(Intermediate; preparation of piperazinylacylperipidines as NGF binding inhibitors to p53NTR receptor and of the apoptosis induced by NGF)
RM	634613-46-0 CA INDEX NAME
CN	4-Piperidylmethanocarboxylic acid, 1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (SCI) (CA INDEX NAME)

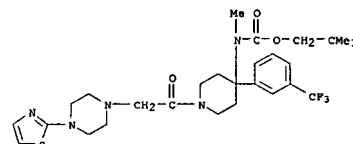


<12/04/2007>

Brich Leese

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RN 634613-49-3 CAPLUS  
CN Carbamic acid, methyl[[1-[[4-(2-thiazolyl)-1-piperazinyl]acetyl]-4-(3-(trifluoromethyl)phenyl)-4-piperidinyl]-, 2,2-dimethylpropyl ester (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L13 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2007 ACS ON STW
ACCESSION NUMBER: 2003:991506 CAPLUS
DOCUMENT NUMBER: 140:27846
TITLE: Preparation of piperazinylacylpiperidines as
inhibitors of NGF binding (nerve growth factor) to
p75NTR (p75 neurotrophin) receptor for treating p75NTR
related diseases
INVENTOR(S): Bono, Françoise; Bosch, Michael; Dos, Santos Victor;
Herbert, Jean Marc; Nisato, Dino; Tonnerre, Bernard;
Wagnon, Jean
PATENT ASSIGNEE(S): Sanofi-Synthelabo, Fr.; Dos Santos, Victor
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104225	A1	20031218	2003-03-FR1685	20030605
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EP 1511835	A1	20050616	EP 2003-757108	20030605
EP 1511835	B1	20060816		
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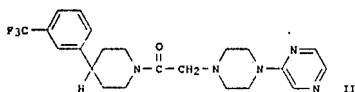
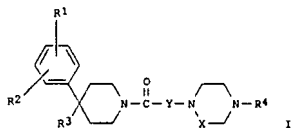
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Erich Leese

10/513699

BR 2003011828 A 20050329 BR 2003-11828 20030605  
 US 2005176722 A1 20050811 US 2003-516704 20030605  
 CN 1675203 A 20050928 CN 2003-818808 20030605  
 JP 2005534661 T 20051117 JP 2004-511295 20030605  
 AT 325122 T 20060615 AT 2003-757109 20030605  
 WZ 537044 A 20060831 WZ 2003-537044 20030605  
 AT 336491 T 20060915 AT 2003-757108 20030605  
 PT 1513836 T 20060929 PT 2003-757109 20030605  
 ES 2264001 T3 20061216 ES 2003-3757109 20030605  
 ZA 2004009823 A 20060726 ZA 2004-9823 20041203  
 NO 2004005331 A 20050307 NO 2004-5331 20041206  
 IN 2004KN01862 A 20060407 IN 2004-KN1862 20041206  
 MX 2004PA12341 A 20050930 MX 2004-PA12341 20041207  
 PRIORITY APPLN. INFO.: FR 2002-7001 A 20020607  
 WO 2003-FR1685 W 20030605

OTHER SOURCE(S): MARPAT 140:27846  
 Q1



AB Title compds. I [wherein: Y = (CH<sub>2</sub>)<sub>n</sub>; n = 1 or 2; X = (CH<sub>2</sub>)<sub>p</sub>; p = 1 or 2; R<sub>1</sub> = halo, CF<sub>3</sub>, alkyl, alkoxy, trifluoromethoxy; R<sub>2</sub> = H, halo; R<sub>3</sub> = H, OR<sub>5</sub>, CH<sub>2</sub>OR<sub>5</sub>, NH<sub>2</sub> and derivs., NHCO<sub>2</sub>R<sub>6</sub> and derivs., NHCONH<sub>2</sub> and derivs., CH<sub>2</sub>NH<sub>2</sub>, CH<sub>2</sub>NHCONH<sub>2</sub> and derivs., alkoxycarbonyl, CONH<sub>2</sub> and derivs., or R<sub>3</sub> forms a double bond between the carbon atom where it is bound to and the neighboring carbon atom of the piperidine cycle; R<sub>4</sub> = (un)substituted pyridinyl, pyrazinyl, pyrimidinyl, pyridazinyl, 3(2H)-pyridazinon-5-yl, 3(2H)-pyridazinon-4-yl; R<sub>5</sub> = H, alkyl, alkylcarbonyl; R<sub>6</sub> = alkyl, (CH<sub>2</sub>)<sub>m</sub>NH<sub>2</sub> and derivs.; m = 1, 2, or 3; R<sub>7</sub>, R<sub>8</sub> = independently H, alkyl; R<sub>8</sub> = (CH<sub>2</sub>)<sub>q</sub>OH, (CH<sub>2</sub>)<sub>q</sub>OMe; q = 2 or 3; or R<sub>7</sub>R<sub>8</sub> = aziridine, azetidine, pyrrolidine, piperidine, morpholine, and their salts, hydrates and solvates] were prepared as inhibitors of the binding of 125I NGF to p75NTR (p75 neurotrophic) receptor and of the apoptosis induced by NGF (nerve

&lt;12/04/2007&gt;

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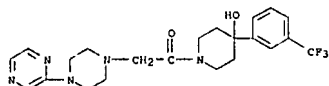
10/513699

CM 2

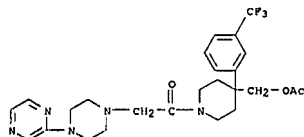
CRN 144-62-7  
 CMP C2 H2 O4



RN 634461-69-1 CAPLUS  
 CN 4-Piperidinol, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634462-72-9 CAPLUS  
 CN 4-Piperidinethanol, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, acetate (ester), dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 634462-91-2 CAPLUS  
 CN 4-Piperidinol, 4-(4-chlorophenyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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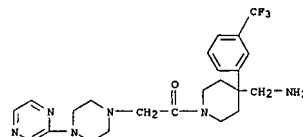
10/513699

growth factor) for treating p75NTR related diseases (no data). For example, I1·HCl was prepared by reacting 1-(2-pyrazinyl)piperazine (preparation given) with 2-chloro-1-[4-(3-(trifluoromethyl)phenyl)-1-piperidinyl]-1-ethanone (preparation given) in the presence of KI/K<sub>2</sub>CO<sub>3</sub>/MeCN, followed by acidulation with HCl. I inhibited the binding of 125I NGF to p75NTR receptor with IC<sub>50</sub> in the range of 10<sup>-11</sup> M to 10<sup>-6</sup> M at the biochem. level. I inhibited the pro-apoptotic effect induced by NGF, via growing cells expressing preferentially p75NTR, with IC<sub>50</sub> in the range of 10<sup>-11</sup> M to 10<sup>-6</sup> M at the cellular level.

IT 634461-23-7P, 1-(4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl)-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone  
 634461-63-5P 634463-69-1P 634462-72-9P  
 634462-91-2P 634463-08-4P 634463-19-7P  
 634463-26-6P 634463-39-1P 634463-49-3P  
 634463-83-5P 634464-53-2P 634464-60-1P  
 634464-66-7P 634525-03-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRBP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (NGF binding inhibitor; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

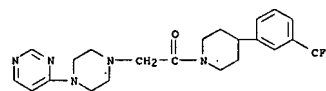
RN 634461-23-7 CAPLUS  
 CN 4-Piperidinethanol, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634461-63-5 CAPLUS  
 CN Piperidine, 1-[(4-(4-pyrimidinyl)-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanediolate (2:5) (9CI) (CA INDEX NAME)

CM 1

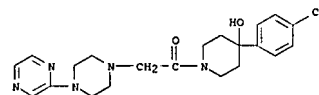
CRN 634461-62-4  
 CMP C22 H26 F3 N5 O



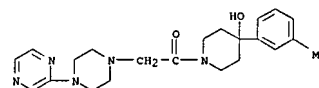
&lt;12/04/2007&gt;

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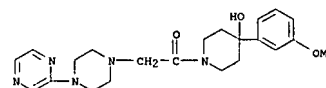
10/513699



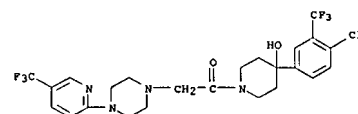
RN 634463-08-4 CAPLUS  
 CN 4-Piperidinol, 4-(3-methylphenyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634463-19-7 CAPLUS  
 CN 4-Piperidinol, 4-(3-methoxyphenyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634463-26-6 CAPLUS  
 CN 4-Piperidinol, 4-(4-chloro-3-(trifluoromethyl)phenyl)-1-[(4-(5-(trifluoromethyl)-2-pyridinyl)-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

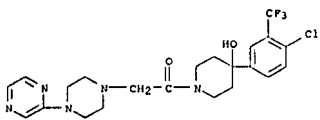


RN 634463-39-1 CAPLUS  
 CN 4-Piperidinol, 4-(4-chloro-3-(trifluoromethyl)phenyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

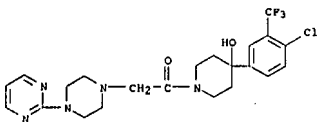
&lt;12/04/2007&gt;

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10/513699



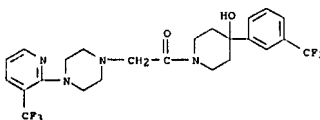
RN 634463-49-3 CAPLUS  
CN 4-Piperidinol, 4-[4-chloro-3-(trifluoromethyl)phenyl]-1-[[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]- (9CI) (CA INDEX NAME)



RN 634463-83-5 CAPLUS  
CN 4-Piperidinol, 4-[3-(trifluoromethyl)phenyl]-1-[[4-(3-(trifluoromethyl)-2-pyridinyl)-1-piperazinyl]acetyl]-, ethanedioate (2:3) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 634463-82-4  
CMP C24 H26 P6 N4 O2



CM 2

CRN 144-62-7  
CMP C2 H2 O4

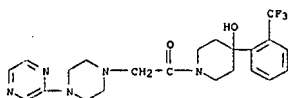


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(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT 634461-08-8P, 2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-1-ethanone monohydrochloride  
634461-12-4P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]-1-ethanone Dioxalate 634461-18-0P, 1-[4-Hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-3-[4-(2-pyrazinyl)-1-piperazinyl]-1-propanone oxalate 634461-29-3P, 1-[4-(Aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrimidinyl)-1-piperazinyl]-1-ethanone Trihydrochloride  
634461-33-8P 634461-39-5P 634461-46-4P  
634461-52-2P 634461-57-7P 634461-73-7P  
634461-76-0P 634461-81-7P 634461-87-3P  
634461-93-1P 634461-99-7P 634462-26-3P  
634462-32-1P 634462-38-7P 634462-49-0P,  
2-[4-(4-Pyrimidinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridinyl]-1-ethanone dioxalate 634462-55-8P  
634462-61-6P 634462-68-3P 634462-79-6P,  
1-[4-(Hydroxymethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634462-83-2P,  
1-[4-[(Dimethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634462-87-6P  
634462-98-9P, 1-[4-(4-Chlorophenyl)-3,6-dihydro-1(2H)-pyridinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634463-03-9P,  
1-[4-(Aminomethyl)-4-(4-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trifluoroacetate 634463-13-1P  
634463-23-3P 634463-33-5P 634463-44-8P  
634463-55-1P 634463-72-2P 634463-77-7P  
634463-88-0P 634463-93-7P 634463-97-1P  
634464-03-2P 634464-08-7P, 1-[4-[(Methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-15-6P, 1-[4-[(Isopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-20-3P,  
1-[4-[1-(N-Methylisopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Trihydrochloride  
634464-24-7P 634464-29-2P 634464-34-9P  
634464-39-4P 634464-44-1P 634464-48-5P,  
1-[4-(Aminomethyl)-4-(3-chlorophenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone 634464-72-5P, 1-[4-(Aminomethyl)-4-(3-methoxyphenyl)-1-piperidinyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone Dioxalate 634466-52-7P 634470-18-1P  
634470-24-9P 634470-30-7P 634470-42-1P  
634525-08-9P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRPP (Preparation); USES (Uses)  
(NGP binding inhibitor; preparation of piperazinylacylpiperidines as

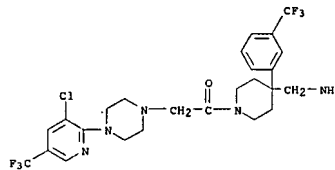
&lt;12/04/2007&gt;

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RN 634464-53-2 CAPLUS

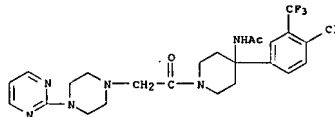
CN 4-Piperidinemethanamine, 1-[[4-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

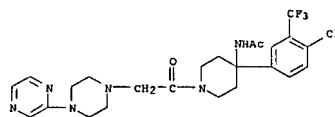
RN 634464-60-1 CAPLUS

CN Acetamide, N-[4-[4-chloro-3-(trifluoromethyl)phenyl]-1-[[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 634464-66-7 CAPLUS

CN Acetamide, N-[4-[4-chloro-3-(trifluoromethyl)phenyl]-1-[[4-(pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 634525-03-4 CAPLUS

CN 4-Piperidinol, 1-[[4-(pyrazinyl)-1-piperazinyl]acetyl]-4-[2-

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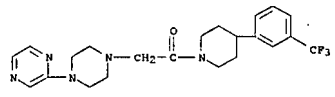
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inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

RN 634461-08-8 CAPLUS

CN Piperidine, 1-[[4-(pyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



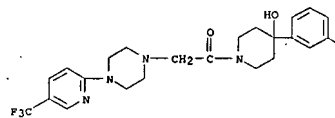
● HCl

RN 634461-12-4 CAPLUS

CN 4-Piperidinol, 4-[3-(trifluoromethyl)phenyl]-1-[[4-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]acetyl]-, ethanedioate (1:2) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 634461-11-3  
CMP C24 H26 P6 N4 O2



CM 2

CRN 144-62-7  
CMP C2 H2 O4



RN 634461-18-0 CAPLUS

CN 4-Piperidinol, 1-[1-oxo-3-(4-pyrazinyl-1-piperazinyl)propyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

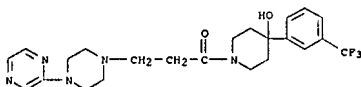
&lt;12/04/2007&gt;

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CRN 634461-17-9  
CMF C23 H28 F3 N5 O2

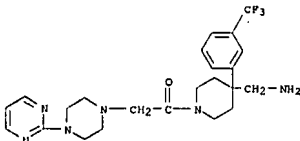


CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 634461-29-3 CAPLUS  
CN 4-Piperidinomethanamine, 1-[[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

RN 634461-33-9 CAPLUS  
CN 4-Piperidinol, 1-[[4-(2-pyridinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

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10/513699

CM 2

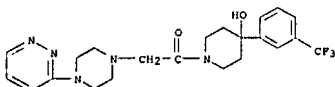
CRN 144-62-7  
CMF C2 H2 O4



RN 634461-52-2 CAPLUS  
CN 4-Piperidinol, 1-[[4-(3-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 634461-51-1  
CMF C22 H26 F3 N5 O2

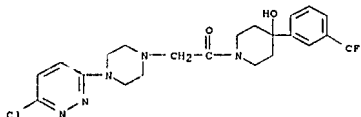


CM 2

CRN 144-62-7  
CMF C2 H2 O4



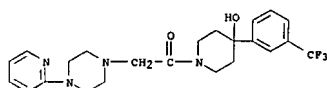
RN 634461-57-7 CAPLUS  
CN 4-Piperidinol, 1-[[4-(6-chloro-3-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



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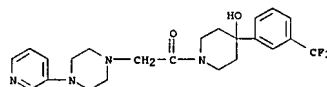
10/513699



RN 634461-39-5 CAPLUS  
CN 4-Piperidinol, 1-[[4-(3-pyridinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 634461-38-4  
CMF C23 H27 F3 N4 O2



CM 2

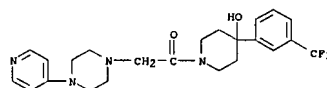
CRN 144-62-7  
CMF C2 H2 O4



RN 634461-46-4 CAPLUS  
CN 4-Piperidinol, 1-[[4-(4-pyridinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:3) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 634461-45-3  
CMF C23 H27 F3 N4 O2

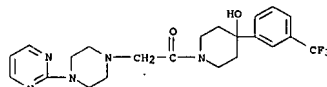


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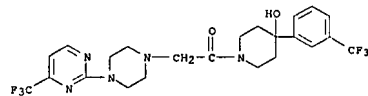
Erich Leese

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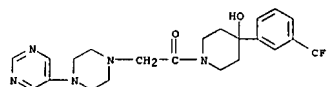
RN 634461-73-7 CAPLUS  
CN 4-Piperidinol, 1-[[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634461-76-0 CAPLUS  
CN 4-Piperidinol, 4-[3-(trifluoromethyl)phenyl]-1-[[4-(4-(trifluoromethyl)-2-pyrimidinyl)-1-piperazinyl]acetyl]- (9CI) (CA INDEX NAME)



RN 634461-81-7 CAPLUS  
CN 4-Piperidinol, 1-[[4-(5-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634461-87-3 CAPLUS  
CN 4-Piperidinol, 1-[[4-(4-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

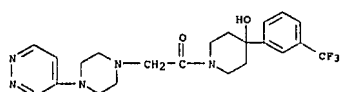
CRN 634461-86-2  
CMF C22 H26 F3 N5 O2



&lt;12/04/2007&gt;

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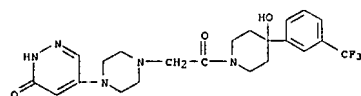
10/513699



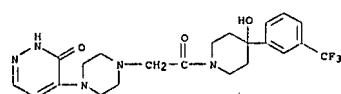
CM 2

CRN 76-05-1  
CMP C2 H F3 O2

RN 634461-93-1 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(1,6-dihydro-6-oxo-4-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634461-99-7 CAPLUS  
CN 4-Piperidinol, 1-[[4-[(2,3-dihydro-3-oxo-4-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

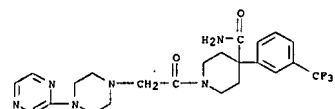


RN 634462-26-3 CAPLUS  
CN Piperidine, 4-methoxy-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

Erich Leese

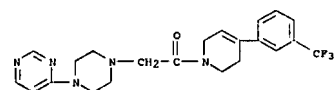
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● 3 HCl

RN 634462-49-0 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[(4-[(4-pyrimidinyl)-1-piperazinyl]acetyl)-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 634462-48-9  
CMP C22 H24 F3 N5 O

CM 2

CRN 144-62-7  
CMP C2 H2 O4

RN 634462-55-8 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

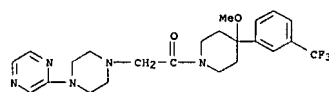
CM 1

CRN 634462-54-7  
CMP C22 H24 F3 N5 O

&lt;12/04/2007&gt;

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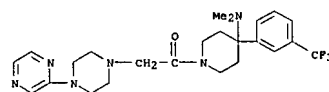
10/513699



● 3 HCl

RN 634462-32-1 CAPLUS  
CN 4-Piperidinamine, N,N-dimethyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 634462-31-0  
CMP C24 H31 F3 N6 O

CM 2

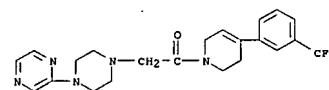
CRN 144-62-7  
CMP C2 H2 O4

RN 634462-38-7 CAPLUS  
CN 4-Piperidinecarboxamide, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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10/513699

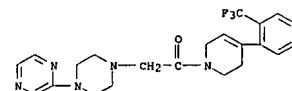


CM 2

CRN 144-62-7  
CMP C2 H2 O4

RN 634462-61-6 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[2-(trifluoromethyl)phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 634462-60-5  
CMP C22 H24 F3 N5 O

CM 2

CRN 144-62-7  
CMP C2 H2 O4

RN 634462-68-3 CAPLUS  
CN 4-Piperidineethanamine, 1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[2-(trifluoromethyl)phenyl]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

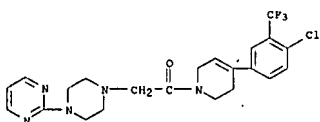
CRN 634462-67-2

&lt;12/04/2007&gt;

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10/513699



● 2 HCl

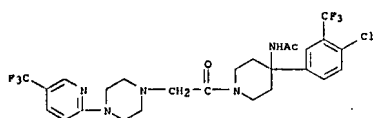
RN 634463-72-2 CAPLUS

CN Acetamide, N-[4-[4-chloro-3-(trifluoromethyl)phenyl]-1-[[4-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]acetyl]-4-piperidinyl]-ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 634463-71-1

CMP C26 H28 Cl P6 N5 O2



CM 2

CRN 144-62-7

CMP C2 H2 O4



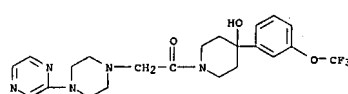
RN 634463-77-7 CAPLUS

CN 4-Piperidinol, 1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

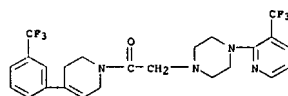
Erich Leese

10/513699



RN 634463-88-0 CAPLUS

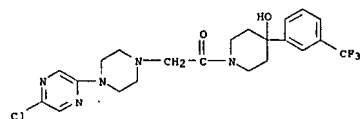
CN Pyridine, 1,2,3,6-tetrahydro-4-[3-(trifluoromethyl)phenyl]-1-[[4-[3-(trifluoromethyl)-2-pyridinyl]-1-piperazinyl]acetyl]-, hydrochloride (2:3) (9CI) (CA INDEX NAME)



● 3/2 HCl

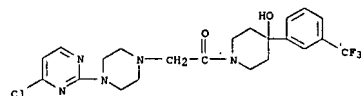
RN 634463-93-7 CAPLUS

CN 4-Piperidinol, 1-[[4-(5-chloropyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634463-97-1 CAPLUS

CN 4-Piperidinol, 1-[[4-(4-chloro-2-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



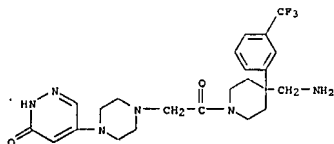
&lt;12/04/2007&gt;

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10/513699

RN 634464-03-2 CAPLUS

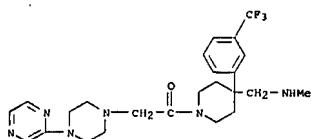
CN 4-Piperidinemethanamine, 1-[[4-(1,6-dihydro-6-oxo-4-pyridazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

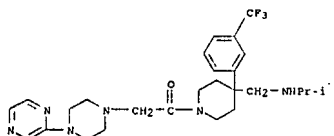
RN 634464-08-7 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-15-6 CAPLUS

CN 4-Piperidinemethanamine, N-(1-methylethyl)-1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-20-3 CAPLUS

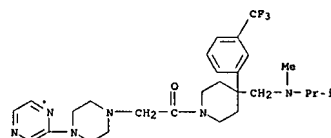
CN 4-Piperidinemethanamine, N-methyl-N-(1-methylethyl)-1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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10/513699

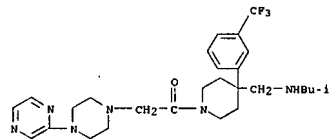
piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

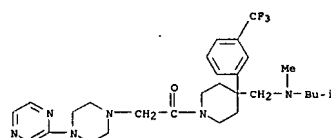
RN 634464-24-7 CAPLUS

CN 4-Piperidinemethanamine, N-(2-methylpropyl)-1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-29-2 CAPLUS

CN 4-Piperidinemethanamine, N-methyl-N-(2-methylpropyl)-1-[[4-(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



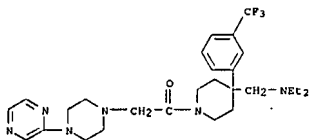
● 3 HCl

&lt;12/04/2007&gt;

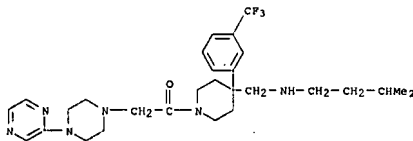
Erich Leese

10/513699

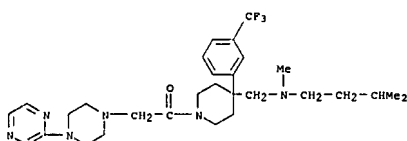
RN 634464-34-9 CAPLUS  
 CN 4-Piperidinemethanamine, N,N-diethyl-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-39-4 CAPLUS  
 CN 4-Piperidinemethanamine, N-(3-methylbutyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-44-1 CAPLUS  
 CN 4-Piperidinemethanamine, N-methyl-N-(3-methylbutyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)



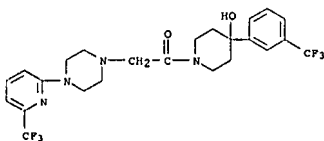
● 3 HCl

RN 634464-48-5 CAPLUS  
 CN 4-Piperidinemethanamine, 4-(3-chlorophenyl)-1-[(4-pyrazinyl-1-

&lt;12/04/2007&gt;

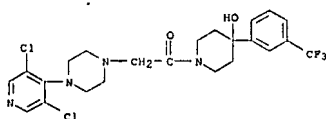
Erich Leese

10/513699

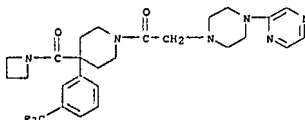


● HCl

RN 634470-18-1 CAPLUS  
 CN 4-Piperidinol, 1-[[4-(3,5-dichloro-4-pyridinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634470-24-9 CAPLUS  
 CN Piperidine, 4-[3-azetidinylcarbonyl]-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



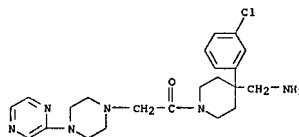
RN 634470-30-7 CAPLUS  
 CN 4-Piperidinol, 1-[[4-(3-chloro-5-(trifluoromethyl)-2-pyridinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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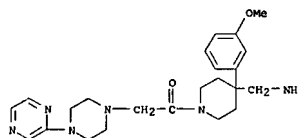
piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634464-72-5 CAPLUS  
 CN 4-Piperidinemethanamine, 4-(3-methoxyphenyl)-1-[(4-pyrazinyl-1-piperazinyl)acetyl]-, ethanediolate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 634464-71-4  
 CMF C23 H32 N6 O2



CM 2

CRN 144-62-7  
 CMF C2 H2 O4

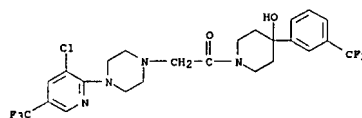


RN 634466-52-7 CAPLUS  
 CN 4-Piperidinol, 4-[3-(trifluoromethyl)phenyl]-1-[(4-(6-(trifluoromethyl)-2-pyridinyl)-1-piperazinyl)acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)

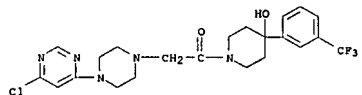
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Erich Leese

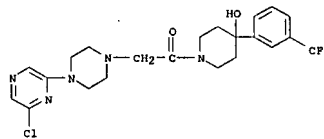
10/513699



RN 634470-42-1 CAPLUS  
 CN 4-Piperidinol, 1-[[4-(6-chloro-4-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634525-08-9 CAPLUS  
 CN 4-Piperidinol, 1-[[4-(6-chloropyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



IT 634462-48-9P 634464-71-4P 634469-50-4P,  
 1-[2-[4-(2-Pyrazinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-  
 4-piperidinecarboxitrile 634469-57-1P, tert-Butyl  
 [[1-[2-[4-(2-Pyrazinyl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate  
 634469-63-9P, 3-[3-[4-(2-Pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinecarboxitrile 634469-68-4P  
 634469-69-5P 634469-74-2P, 4-(4-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 634469-86-6P, tert-Butylmethyl [[1-[2-[4-(2-pyrazinyl)-1-piperazinyl]-1-oxoethyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]carbamate 634469-90-2P, 4-(3-Chlorophenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 634469-97-9P, 4-(3-Methoxyphenyl)-1-[2-[4-(2-pyrazinyl)-1-piperazinyl]acetyl]-4-piperidinecarboxitrile  
 RL: RCT (Reactant), SPM (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)

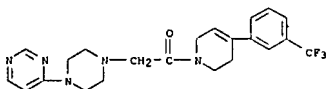
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Erich Leese

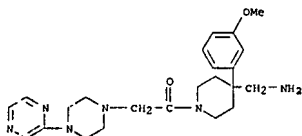
10/513699

(intermediate; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

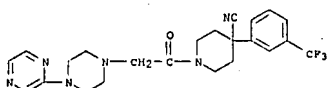
RN 634462-48-9 CAPLUS  
CN Pyridine, 1,2,3,6-tetrahydro-1-[[4-(4-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634464-71-4 CAPLUS  
CN 4-Piperidinemethanamine, 4-(3-methoxyphenyl)-1-[[4-pyrazinyl-1-piperazinyl]acetyl]- (9CI) (CA INDEX NAME)



RN 634469-50-4 CAPLUS  
CN 4-Piperidinecarbonitrile, 1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634469-57-1 CAPLUS  
CN Carbamic acid, [[1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

Erich Leese

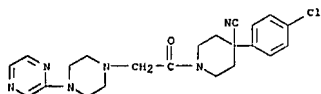
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CM 2

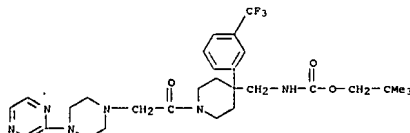
CRN 144-62-7  
CMF C2 H2 O4



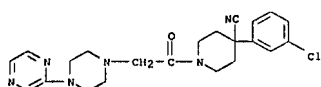
RN 634469-74-2 CAPLUS  
CN 4-Piperidinecarbonitrile, 4-(4-chlorophenyl)-1-[[4-(pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



RN 634469-86-6 CAPLUS  
CN Carbamic acid, [[1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-4-[3-(trifluoromethyl)phenyl]-4-piperidinyl]methyl]-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



RN 634469-90-2 CAPLUS  
CN 4-Piperidinecarbonitrile, 4-(3-chlorophenyl)-1-[[4-(pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

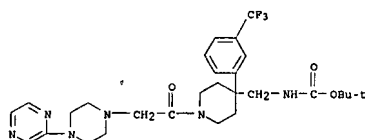


RN 634469-97-9 CAPLUS

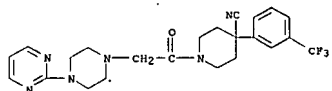
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Erich Leese

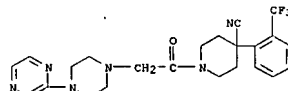
10/513699



RN 634469-63-9 CAPLUS  
CN 4-Piperidinecarbonitrile, 1-[[4-(2-pyrimidinyl)-1-piperazinyl]acetyl]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



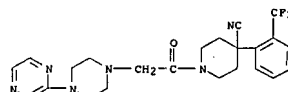
RN 634469-68-4 CAPLUS  
CN 4-Piperidinecarbonitrile, 1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-4-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 634469-69-5 CAPLUS  
CN 4-Piperidinecarbonitrile, 1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-4-[2-(trifluoromethyl)phenyl]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 634469-68-4  
CMF C23 H25 F3 N6 O

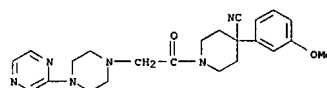


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Erich Leese

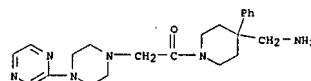
10/513699

CN 4-Piperidinecarbonitrile, 4-(3-methoxyphenyl)-1-[[4-(pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)



IT 634469-80-0P, 1-(4-(Aminomethyl)-4-phenyl-1-piperidinyl)-2-(4-(2-pyrazinyl)-1-piperazinyl)-1-ethanone  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(intermediate; preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

RN 634469-80-0 CAPLUS  
CN 4-Piperidinemethanamine, 4-phenyl-1-[[4-(pyrazinyl-1-piperazinyl)acetyl]- (9CI) (CA INDEX NAME)

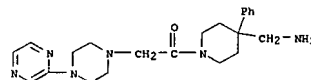


IT 634469-81-1P, 1-(4-(Aminomethyl)-4-phenyl-1-piperidinyl)-2-(4-(2-pyrazinyl)-1-piperazinyl)-1-ethanone  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of piperazinylacetyl piperidines as inhibitors of the binding of NGF to p75NTR receptor and of the apoptosis induced by NGF)

RN 634469-81-1 CAPLUS  
CN 4-Piperidinemethanamine, 4-phenyl-1-[[4-(pyrazinyl-1-piperazinyl)acetyl]-, tris(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 634469-80-0  
CMF C22 H30 N6 O



CM 2

CRN 76-05-1

&lt;12/04/2007&gt;

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10/513699

CMP C2 H P3 O2



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:658095 CAPLUS  
 DOCUMENT NUMBER: 137:201331  
 TITLE: Preparation of heterocyclic substituted cycloalkanecarboxamides as dopamine D3 receptor ligands  
 INVENTOR(S): Hendrix, James A.; Hemmerle, Horst; Urmann, Matthias; Shutske, Gregory; Strupczewski, Joseph T.; Bordaue, Kenneth J.; Jurcak, John G.; Nieduzak, Thaddeus; Jackson, Sharon Anne; Angell, Paul; Pink, David M.; Sabuco, Jean-Francois; Chiang, Yulin; Collar, Nicola  
 PATENT ASSIGNOR(S): Aventis Pharmaceuticals Inc., USA; Carey, James P.; Lee, George E.  
 SOURCE: PCT Int. Appl., 192 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

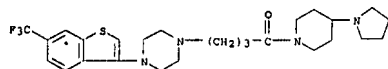
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200206446	A1	20020829	WO 2002-054713	20020215
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RM: GH, OM, KE, LS, MM, MZ, SD, SL, SZ, T2, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BP, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2438264	A1	20020829	CA 2002-2438264	20020215
AU 2002250107	A1	20020904	AU 2002-250107	20020215
EP 1362039	A1	20031119	EP 2002-718999	20020215
EP 1362039	B1	20051221		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, JP, 2004518740	T	20040624	JP 2002-565962	20020215
AT 313534	T	20060115	AT 2002-718999	20020215
EP 1632483	A1	20060308	EP 2005-18120	20020215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, ES 2253526	T3	20060601	ES 2002-2718999	20020215
MX 2003PA06943	A	20050429	MX 2003-PA6943	20030804
US 2004220173	A1	20041104	US 2004-819037	20040406

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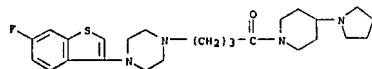
Erich Leese

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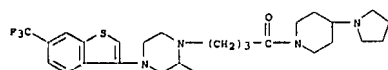
CN Piperidine, 1-[4-(4-(6-(trifluoromethyl)benzo[b]thien-3-yl)-1-piperazinyl)butyl]-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



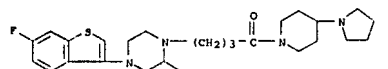
RN 452902-79-3 CAPLUS  
 CN Piperidine, 1-[4-(4-(6-fluorobenzo[b]thien-3-yl)-1-piperazinyl)-1-oxobutyl]-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 452903-57-0 CAPLUS  
 CN Piperidine, 1-[4-(4-(2-(phenylmethyl)-4-(6-(trifluoromethyl)benzo[b]thien-3-yl)-1-piperazinyl)butyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 452903-67-2 CAPLUS  
 CN Piperidine, 1-[4-(4-(6-fluorobenzo[b]thien-3-yl)-2-(phenylmethyl)-1-piperazinyl)-1-oxobutyl]-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 452909-63-6 CAPLUS  
 CN Piperidine, 4-[(1H-imidazol-1-yl)-1-[1-(4-thieno[2,3-d]isoxazol-3-yl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)

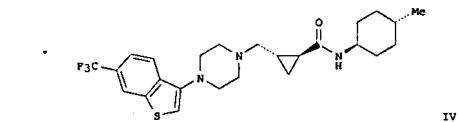
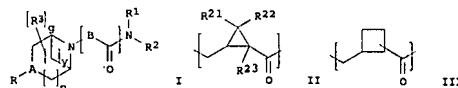
&lt;12/04/2007&gt;

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US 7186724 B2 20070305  
 US 2007161641 A1 20070712  
 PRIORITY APPLN. INFO.:  
 US 2007-714047 P 20070305  
 GB 2001-17577 A 20010719  
 EP 2002-718999 A3 20020215  
 WO 2002-054713 W 20020215  
 US 2002-78225 B1 20020219  
 US 2004-819037 A3 20040406

OTHER SOURCE(S): MARPAT 137:201331  
 OI

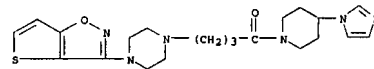


AB The title compds. [I, A = CH, N; n = 1-2; when n = 1, yr = 0 or 2; when n = 2, yr = 0; g = 1-2; R3 = H, alkyl, (CH2)wPh; w = 1-3; R = (un)substituted benzothienyl, pyrazinyl, pyridyl, etc.; BCO = (CR1CR2)CO, I, II, etc.; R19, R20 = H, OH, alkyl; R21-R23 = H, alkyl, d = 3-4; R1 = H, alkyl, etc.; R2 = 3-(imidazol-1-yl)propyl, trans-4-methylcyclohexyl, trans-4-ethylcyclohexyl, etc.] that display selective binding to dopamine D3 receptors, and therefore are useful in treating central nervous system disorders such as psychotic disorders, substance dependence, substance abuse, dyskinetic disorders (e.g., Parkinson's disease, parkinsonism, neuroleptic-induced tardive dyskinesia, Gilles de la Tourette syndrome and Huntington's disease), dementia, anxiety disorders, sleep disorders, circadian rhythm disorders and mood disorders, were prepared. E.g., a multi-step synthesis of trans/trans-IV was described. Biol. data for more than 1000 compds. I were given. The subject invention is also directed towards processes for the preparation of the compds. I as well as methods for making and using the compds. as imaging agents for dopamine D3 receptors.  
 IT 452902-57-7P 452902-79-3P 452903-57-0P  
 452903-67-2P 452909-63-6P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 Preparation of heterocyclic substituted cycloalkanecarboxamides as dopamine D3 receptor ligands  
 RN 452902-57-7 CAPLUS

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REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:197358 CAPLUS  
 DOCUMENT NUMBER: 128:257695  
 TITLE: Preparation of modified amino acids and their use as calcitonin gene-related peptide antagonists in pharmaceutical compositions  
 INVENTOR(S): Rudolf, Klaus; Eberlein, Wolfgang; Engel, Wolfhard; Pieper, Helmut; Doods, Henri; Hallermeier, Gerhard; Enterroth, Michael; Wienen, Wolfgang  
 PATENT ASSIGNOR(S): Karl Thomae G.m.b.H., Germany  
 SOURCE: PCT Int. Appl., 461 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9811128	A1	19980319	WO 1997-EP4862	19970908
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RM: GH, KE, LS, MM, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BP, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19636623	A1	19980312	DE 1996-19636623	19960910
DE 19720011	A1	19981119	DE 1997-19720011	19970514
CA 2262818	A1	19980319	CA 1997-2262818	19970908
AU 5741196	A	19980402	AU 1997-41196	19970908
AU 721035	B2	20000622		
EP 927192	A1	19990707	EP 1997-938928	19970908
EP 927192	B1	20040512		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9712023	A	19990831	BR 1997-12023	19970908
JP 20000505100	T	20000425	JP 1998-513227	19970908
JP 3483893	B2	20040106		
HU 9904501	A2	20000428	HU 1999-4501	19970908
AT 266673	T	20040515	AT 1997-938928	19970908
EE 4375	B1	20041015	EE 1999-115	19970908
PL 190180	B1	20051130	PL 1997-331989	19970908
SK 285631	B6	20070503	SK 1999-297	19970908
NO 9901130	A	19990505	NO 1999-1130	19990309
KR 2000044040	A	20000715	KR 1999-702008	19990310
BG 64214	B1	20040531	BG 1999-103250	19990315
US 6344449	B1	20020205	US 1999-254281	19991012

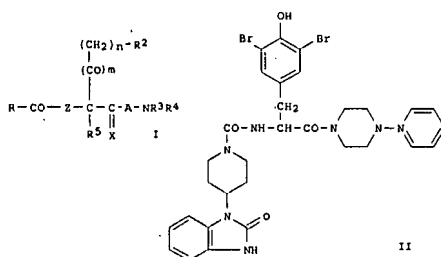
&lt;12/04/2007&gt;

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HK 1021192	A1 20040430	HK 1999-105722	19991208
US 2001036946	A1 20011101	US 2001-789391	20010221
US 2003069231	A1 20030410	US 2002-119875	20020410
US 2004214819	A1 20041028	US 2004-835495	20040429
PRIORITY APPLN. INFO.:		DE 1996-19636623	A 19960910
		DE 1997-19720011	A 19970514
		WO 1997-EP4862	W 19970908
		US 1999-254281	A1 19991012
		US 2001-789391	A1 20010221
		US 2002-119875	B1 20020410

OTHER SOURCE(S): MARPAT 128:257695  
Q1



AB The invention concerns modified amino acids of general formula I (A = bond, CX, Z = CH<sub>2</sub>, NR<sub>1</sub>; R<sub>1</sub> = H, alkyl, phenyl-alkyl; X = O, H, H; n = 1-2; m = 0-1; R = (substituted)alkyl; R<sub>2</sub> = Ph, (substituted) (hetero) (bicyclic); R<sub>3</sub> = H, (substituted)alkyl, Ph, pyridinyl; R<sub>4</sub> = H, (substituted)alkyl; R<sub>3</sub>R<sub>4</sub> = (hetero)cyclic; R<sub>5</sub> = H, alkyl, alkoxy, carbonyl, PhCH<sub>2</sub>); pharmaceuticals containing these compds., their use and the method for their production, as well as their use for the production and purification of antibodies and as marked compds. in RIA and ELISA assays and as diagnostic or analytic auxiliary agents in neurotransmitter research. Thus, 3,5-dibromo-N<sub>2</sub>-(4-(1,3-dihydro-2(2H)-oxo-benzimidazol-1-yl)-1-piperidinyl)carbonyl-D-tyrosine was reacted with 1-(4-pyridinyl)-piperazine, to give II (22%). Title compds. show human calcitonin gene related peptide (CGRP) antagonist activity; in in-vitro binding studies with Sk-N-MC-cells, I had IC<sub>50</sub> 510000 nM, and in the same system, had CGRP-antagonist activity at doses from 10<sup>-11</sup> to 10<sup>-6</sup> M.

IT 205061-88-7P 205061-89-8P 205061-90-1P 205062-88-0P 205062-90-4P 205062-91-5P 205063-22-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

&lt;12/04/2007&gt;

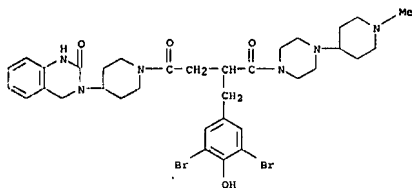
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PAGE 2-A



RN 205061-90-1 CAPLUS  
CN Piperazine, 1-[2-[(3,5-dibromo-4-hydroxyphenyl)methyl]-4-(4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl)-1,4-dioxobutyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 205062-88-0 CAPLUS  
CN Piperazine, 1-[4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxo-2-[(3-(trifluoromethyl)phenyl)methyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

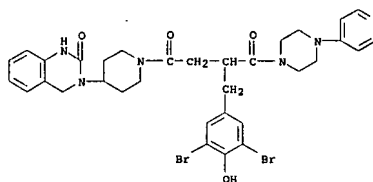
Relative stereochemistry.

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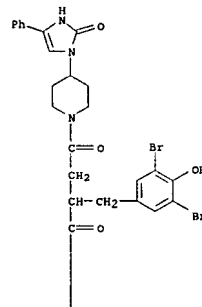
10/513699

BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of amino acids and their use as calcitonin gene-related peptide antagonists in pharmaceutical compns.)  
RN 205061-88-7 CAPLUS  
CN Piperazine, 1-[2-[(3,5-dibromo-4-hydroxyphenyl)methyl]-4-(4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl)-1,4-dioxobutyl]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 205061-89-8 CAPLUS  
CN Piperazine, 1-[2-[(3,5-dibromo-4-hydroxyphenyl)methyl]-4-(4-(2,3-dihydro-2-oxo-4-phenyl-1H-imidazol-1-yl)-1-piperidinyl)-1,4-dioxobutyl]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)

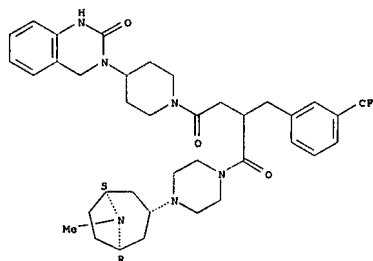
PAGE 1-A



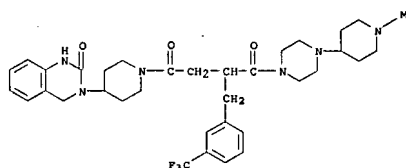
&lt;12/04/2007&gt;

Erich Leese

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RN 205062-90-4 CAPLUS  
CN Piperazine, 1-[4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxo-2-[(3-(trifluoromethyl)phenyl)methyl]butyl]-4-(1-methyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

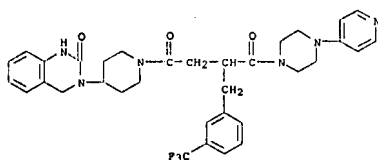


RN 205062-91-5 CAPLUS  
CN Piperazine, 1-[4-[4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl]-1,4-dioxo-2-[(3-(trifluoromethyl)phenyl)methyl]butyl]-4-(4-pyridinyl)- (9CI) (CA INDEX NAME)

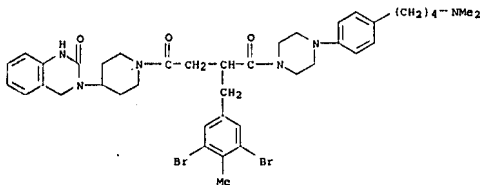
&lt;12/04/2007&gt;

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RN 205063-22-5 CAPLUS  
 CN Piperazine, 1-[2-[(3,5-dibromo-4-methylphenyl)methyl]-4-{4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl)-1-piperidinyl}-1,4-dioxobutyl]-4-{4-(4-(dimethylamino)butyl)phenyl}- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1989:594790 CAPLUS  
 DOCUMENT NUMBER: 111:194790  
 TITLE: Preparation of N-[3-(heterocyclylcarbonyl- and -sulfonyl)propyl]-N'-2-pyrimidinylpiperazines as antianxiety agents  
 INVENTOR(S): Welch, Willard Mckowan  
 PATENT ASSIGNEE(S): Pfizer Inc., USA  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 CODEN: EPXXDM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 314363	A2	19890503	EP 1988-309725	19881017
EP 314363	A3	19900711		
EP 314363	B1	19930407		

&lt;12/04/2007&gt;

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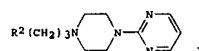
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HU 206109	B												
AT 87919	T												
ES 2054823	T3												
IL 88085	A												
JJP 01157979	A												
JJP 06043406	B												
CN 1042148	A												
CN 1022246	B												
ZA 8807925	A												
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DD 298397	A5												
CA 1314881	C												
AU 8824327	A												
AU 598161	B2												
DK 8805914	A												
DK 171788	B1												
PL 152117	B1												
PL 153184	B1												
CS 274441	B2												
CS 274446	B2												
NO 9001652	A												
US 4994455	A												
RU 2029768	C1												
FI 94638	B												
FI 94638	C												

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OTHER SOURCE(S):  
 GI

WO 1987-052855 A 19871026  
 EP 1988-309725 A 19881017  
 CS 1988-7080 A3 19881026

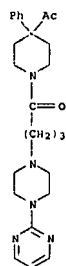
CASREACT 111:194790; MARPAT 111:194790



AB The title compds. (I, R2 = RCO, R1R2, R = 14 specific N-attached heterocyclyl, e.g., pyrrolidino, piperidino, etc.; R1 = 7 specific N-attached heterocyclyl, e.g., 4,4-dimethylpiperidino, 4-(2-pyrimidinyl)piperazino, etc.) were prepared as antianxiety agents (no data). Br(CH2)3CO2Et was refluxed 4 h with H2O-separation with 1-(2-pyrimidinyl)piperazine in MeCOCH2CHMe2 containing Na2CO3 and KI to give 75% I (R2 = CO2Et) which was saponified and the product stirred 3 h at 0° and then overnight with 4,4-dimethylpiperidine in CH2Cl2 containing Et3N, 1-hydroxybenzotriazole, and DCC to give 47% I (R2 = 4,4-dimethylpiperidinocarbonyl).  
 IT 123319-56-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as antianxiety agent)  
 RN 123319-56-2 CAPLUS  
 CN Piperidine, 4-acetyl-1-[1-oxo-4-{4-(2-pyrimidinyl)-1-piperazinyl}butyl]-4-phenyl- (9CI) (CA INDEX NAME)

&lt;12/04/2007&gt;

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&lt;12/04/2007&gt;

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